

GenCore version 5.1.6
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OM nucleic - nucleic search, using SW model

Run on: December 18, 2003, 18:33:00 ; Search time 301 Seconds
(without alignments)
7578.157 Million cell updates/sec

Title: US-09-925-301-124

Perfect score: 845
Sequence: 1 ggcagaggtcacaccgcga.....g999999999cccccccccc 845

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 2552756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters: 5105512

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : N_Geneseq_19Jun03.*

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21: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT.*
22: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT.*
23: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT.*
24: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT.*
25: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2003.DAT.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	843	99.8	845	21	AAC77730 Human cancer assoc
2	758	89.7	1057	25	ACC50321 Breast cancer asso
3	748.6	88.6	962	23	ABV29510 Human prostate exp
4	744.4	88.1	786	24	ABZ25755 Human site-specific
5	735.2	87.0	748	24	ABG61087 RIKEN 181046019 p
6	705	83.4	725	22	AA171793 Human C35 coding s
7	653.8	77.4	762	24	ABQ56132 Human ovarian anti
8	565.2	66.9	814	23	ABV23648 Human prostate exp

9	565	66.9	602	23	ABV44776
10	469	55.5	875	23	ABV14903
11	400	47.3	404	22	AAH55578
12	381.2	45.1	517	23	ABV38989
13	354	41.9	317	23	ABV17185
14	354	41.9	354	23	AAH77148
15	346	40.9	354	24	ABV67744
16	300	35.5	300	24	ABO78746
17	299.4	35.4	301	24	ABV97310
18	297.4	35.2	299	24	ABV69697
19	290.2	34.3	419	16	AA723303
20	284	33.6	285	24	ABV99124
21	281.8	33.3	293	24	ABV97062
22	265.8	31.5	416	25	ABX51910
23	260.2	30.8	310	21	AA030159
24	228.8	27.1	437	24	ABL59494
25	170.6	20.2	715	24	ABV76834
26	168	19.9	345	23	ABV05734
27	146.2	17.3	565	22	AA115834
28	127.4	15.1	373	22	AA124678
29	98.2	11.6	340	25	ABX1896
30	87	10.3	433	24	ABL78369
31	82.6	9.8	371	21	AAC98006
32	82.4	9.8	588	20	AAV84464
33	82.4	9.8	588	22	ABAB3247
34	78.4	9.3	1016	21	AAC78044
35	78.2	9.3	458	23	ABV48154
36	78.2	9.3	6065	22	ABF7908
37	78.2	9.3	6066	24	ABQ54960
38	78	9.2	985	22	AA081199
39	78	9.2	985	22	AA08212
40	78	9.2	1111	24	ABF90006
41	77.6	9.2	1635	21	AA71654
42	77.6	9.2	2884	24	ABL50847
43	77.6	9.2	2958	23	ABK43639
44	77.2	9.1	706	24	AA033711
45	77	9.1	1606	24	ABQ54999

ALIGNMENTS

RESULT 1
AAC77730 standard; cDNA; 845 BP.

AAC77730;

08-FEB-2001 (first entry)

Human cancer associated gene sequence SEQ ID NO:124.

Human; cancer associated gene; cancer antigen; detection; cancer; diagnosis; cytotoxic; proliferative; vulnery; immunomodulator; antidiabetic; antisthmatic; antirheumatic; antiarthritic; antiviral; antileukematory; antihypoid; antiallergic; antibacterial; cardiac; dermatological; neuroprotective; thrombolytic; coagulant; noctropic; vasotrophic; antipsoriatic; antiangiogenic; gene therapy; inflammation; immune disorder; haematopoietic cell disorder; autoimmune disorder; allergic reaction; graft versus host disease; organ rejection; haemostatic; thrombolytic; cardiovascular disorder; infection; neurological disease; drug screening; ss.

Homo sapiens.

WO200055350-A1.

21-SEP-2000.

08-MAR-2000; 2000WO-US05882.

12-MAR-1999; 99US-0124270.

Human prostate exp
Human prostate exp
Human breast tumou
Human prostate exp
Human C35 coding s
Human C35 gene CDN
Human pancreatic c
Differentially exp
Human pancreatic c
Human pancreatic c
Human gene signatu
Human pancreatic c
Human pancreatic c
Bovine EST associa
Human secreted pro
EST related to ham
Frog embryonic gen
Human prostate exp
Human breast cance
Human breast cance
Bovine EST associa
Human ovarian can
Human colon cancer
Human secreted pro
Human secreted pro
Human cancer assoc
Human prostate exp
Human secreted pro
Human ovarian anti
Human secreted pro
Human polynucleoti
Human breast and o
Human polynucleoti
DNA encoding novel
Human secreted pro
Human ovarian anti

PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Rosen CA, Ruben SM;
 XX WPI, 2000-587533/55.
 DR P-PSDB; AAB43521.
 XX
 PT Novel isolated nucleic acids comprising sequences encoding peptides
 useful for treating or diagnosing e.g. cancer -
 XX
 PS Claim 1, Page 707-708, 2352pp; English.
 XX
 CC AAC77607 to AAC78448 encode the human cancer associated proteins given
 CC in AAB43398 to AAB44239. The proteins can have activities based on the
 CC tissues and cells the genes are expressed in. Example of activities
 CC include: cytoskeletal; proliferative; vulnery; immunomodulator;
 CC antidiabetic; antistatic; antirheumatic; antitachytic;
 CC antiinflammatory; antihypoid; antiallergic; antibacterial; antiviral;
 CC dermatological; neuroprotective; cardiac; thrombolytic; coagulant;
 CC neurotropic; vasotropic; antipsoriatic and angiogenic. The
 CC polynucleotides and polypeptides can be used for preventing, treating or
 CC ameliorating medical conditions and diagnosing pathological conditions.
 CC Polynucleotides, polypeptides, antibodies, agonists and antagonists from
 CC the present invention may be used to treat immune disorders by activating
 CC or inhibiting the proliferation, differentiation or mobilization of
 CC immune cells, to treat disorders of haematopoietic cells, autoimmune
 CC disorders, allergic reactions, graft versus host disease and organ
 CC rejection, modulate haemostatic or thrombolytic activity, modulate
 CC inflammation, cancers, cardiovascular disorders, neurological disease and
 CC bacterial or viral infections. The peptides, nucleotides, antibodies,
 CC agonists and antagonists may be also be used in drug screens. AAC78449 to
 CC AAC78457 and AAB44240 represent sequences used in the exemplification of
 CC the present invention.
 XX
 SQ Sequence 845 BP, 222 A; 235 C; 227 G; 159 T; 2 other;

Query Match 99.8%; Score 843; DB 21; Length 845;
 Best Local Similarity 100.0%; Pred. No. 8.9e-145;
 Matches 845; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCAGAGGTTCAACCCCGGAAAGCGGGGCGGAGCCGCGGATGAGCGGGGA 60
 DB 1 GGCAGAGGTTCAACCCCGGAAAGCGGGGCGGAGCCGCGGATGAGCGGGGA 60
 QY 61 GCCGGGGGCAACCGTCGTAGCGGCCCTCCCGAGAGAGTGAGCGGGGAGTCCG 120
 DB 61 GCCGGGGGCAACCGTCGTAGCGGCCCTCCCGAGAGAGTGAGCGGGGAGTCCG 120
 QY 121 CATCGTGTGAGTACTGTGAACCCCTCGGCTTGAGGCGACCTAAGTGTGCGCAG 180
 DB 121 CATCGTGTGAGTACTGTGAACCCCTCGGCTTGAGGCGACCTAAGTGTGCGCAG 180
 QY 181 TGCTGTGAAGAGAGATCCGGGCGATCGAGATGAGTCCGGCTCGGGGGCACAGGTGC 240
 DB 181 TGCTGTGAAGAGAGATCCGGGCGATCGAGATGAGTCCGGCTCGGGGGCACAGGTGC 240
 QY 241 CTTTGAATGAGATTAATGAGACAGCTGTGTTCTCAAGCTGAGAAATGGGGCTTCC 300
 DB 241 CTTTGAATGAGATTAATGAGACAGCTGTGTTCTCAAGCTGAGAAATGGGGCTTCC 300
 QY 301 CTATGAGAAAGATCTATTGAGGCGCATCCGAAAGCGCAGTAATGAGAAACCTTAGAAAA 360
 DB 301 CTATGAGAAAGATCTATTGAGGCGCATCCGAAAGCGCAGTAATGAGAAACCTTAGAAAA 360
 QY 361 GATCACCAGACCGCTCTCCGCTGATCTGTGACTGACAGAGACTCTGGGTTCTCG 420
 DB 361 GATCACCAGACCGCTCTCCGCTGATCTGTGACTGACAGAGACTCTGGGTTCTCG 420
 QY 421 CTCTGTTCTGGGGGCAACCTTGCTCTCTGTTGCTGCTGGGGAGCTCCCTGCTCCT 480
 DB 421 CTCTGTTCTGGGGGCAACCTTGCTCTCTGTTGCTGCTGGGGAGCTCCCTGCTCCT 480
 QY 481 CTTTCCCTCTTAGCTCTTAGCAAGAGACCTGCGCTTCACTTGTGCTTGGGTTAC 540

DB 481 CTTTCCCTCTTAGCTCTTAGCAAGAGACCTGCGCTTCACTTGTGCTTGGGTTAC 540
 QY 541 AAGAGAGAAATGAATATCCGTCGCTGGGGGCGAGAGAGACATCTCATGAACA 600
 DB 541 AAGAGAGAAATGAATATCCGTCGCTGGGGGCGAGAGAGACATCTCATGAACA 600
 QY 601 CTCTCCAGCAGCCTGATACCCCTTCCAGGGTAAGTCCCAAGAGCCAGTCCACT 660
 DB 601 CTCTCCAGCAGCCTGATACCCCTTCCAGGGTAAGTCCCAAGAGCCAGTCCACT 660
 QY 661 CTTCGCTGGTGAATACTGTGTGATGCCACAGATTTTATTTCTCCCTTAACCCAGG 720
 DB 661 CTTCGCTGGTGAATACTGTGTGATGCCACAGATTTTATTTCTCCCTTAACCCAGG 720
 QY 721 GCATGTGAGCTTTTGGCAGTAAGTGGGCTTCAACAACCTAATAAAAAAAAAAAAAA 780
 DB 721 GCATGTGAGCTTTTGGCAGTAAGTGGGCTTCAACAACCTAATAAAAAAAAAAAAAA 780
 QY 781 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAATTTNGGGGGGGGCCCC 840
 DB 781 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAATTTNGGGGGGGGCCCC 840
 QY 841 CCCCC 845
 DB 841 CCCCC 845

RESULT 2
 ACC50321
 ID ACC50321 standard; cDNA; 1057 BP.
 XX
 AC ACC50321;
 XX
 DT 12-JUN-2003 (first entry)
 XX
 DE Breast cancer associated cDNA sequence SEQ ID NO:479.
 XX
 KW Human; breast cancer; cytoskeletal; gene therapy; gene; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO2003004989-A2.
 XX
 PD 16-JAN-2003.
 XX
 PF 21-JUN-2002; 2002WO-US19669.
 XX
 PR 21-JUN-2001; 2001US-299887P.
 PR 27-JUN-2001; 2001US-301572P.
 PR 18-JUL-2001; 2001US-306501P.
 PR 25-SEP-2001; 2001US-325002P.
 PR 05-MAR-2002; 2002US-362585P.
 PR 14-MAY-2002; 2002US-380391P.
 XX
 PA (MILL-) MILLENIUM PHARM INC.
 XX
 PI Lilie J, Gannavarapu M, Glatz K, Hoersch S, Kamatkar S, Mertens M;
 PI Monahan JE, Myer V, Wang Y, Xu Y, Zhao X, Meyers RE, Baet RC;
 PI Hortobagyi GN, Pusztai L, Meric F, Sahin A, Mills GB;
 DR WPI; 2003-210381/20.
 DR P-PSDB; ABR47619.
 XX
 PT Breast cancer diagnosis or treatment by comparing the level of
 PT expression of a marker in a patient sample with that in the control
 PT non-breast cancer sample -
 XX
 PS Claim 1; SEQ ID 479; 128bp; English.
 XX
 CC The present invention describes a method for assessing whether a patient
 CC is afflicted with breast cancer. The method comprises comparing the level
 CC of expression of a marker (gene/polypeptide see ACC50076 to ACC50334 and

QY 732 TATTGCGAGTAAGTGGCGCTACAAACATAAAAAAAAAAAAAA 777
 DB 720 TATTGCGAGTAAGTGGCGCTACAAACATAAAAAAAAAAAAAA 765

RESULT 5
 ABO61087
 ID ABO61087 standard; cDNA; 748 BP.
 AC ABO61087;
 DT 26-FEB-2003 (first entry)
 DE RIKEN 1810046J19 protein encoding sequence.

XX Neuroprotective; immunomodulator; cancer; chromosome 4q13-q21;
 XX cytoskeletal; anti-inflammatory; gene therapy; nutritional supplement;
 XX wound; burn; ulcer; Alzheimer's disease; Huntington's disease;
 XX amyotrophic lateral sclerosis; autoimmune disorder; inflammation;
 XX vulnerability; gene; ss.

OS Homo sapiens.
 PN WO200231111-A2.
 XX 18-APR-2002.
 PD 11-OCT-2001; 2001WO-US27760.
 PE 12-OCT-2000; 2000US-0687527.
 PR 12-OCT-2000; 2000US-0687527.
 XX (HYSE-) HYSEQ INC.
 PA Tang Y, Liu C, Zhou P, Asundi V, Zhang J, Zhao QA, Ren F;
 PI Xue AJ, Yang Y, Wehrman T, Drmanac RT;
 DR N-PSDB; ABP43843.
 XX WPI; 2002-426278/45.
 XX New polypeptides and their encoded proteins, useful as nutritional
 FT sources or supplements, or in gene therapy, particularly for treating
 PT wounds, Alzheimer's disease, amyotrophic lateral sclerosis, cancer, or
 PT inflammation -
 XX Claim 1; SEQ ID # 300; 357pp + sequence listing; English.

XX The invention relates to 446 newly isolated polynucleotide sequences.
 CC The activity of polynucleotides of the invention may be described as,
 CC vulnerability, neuroprotective, immunomodulator, cytoskeletal and
 CC anti-inflammatory. Compositions comprising nucleic acids of the invention
 CC are useful for treating a mammalian subject, or as nutritional sources or
 CC supplements. These are useful in gene therapy, particularly for treating
 CC wounds, burns or ulcers, Alzheimer's disease, Huntington's disease,
 CC amyotrophic lateral sclerosis, autoimmune disorders, cancer or
 CC inflammation. The nucleic acids and polypeptides are also useful in
 CC diagnostic and research methods. The sequences given in records
 CC ABO60788-ABO61233 represent polynucleotides of the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 748 BP; 169 A; 216 C; 208 G; 155 T; 0 other;

QY Query Match 87.0%; Score 735.2; DB 24; Length 748;
 DB Best Local Similarity 98.9%; Pred. No. 3.9e-125;
 Matches 740; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 28 GCCGAGGCGGAGCGGCGGAGTGAAGCGGGAGAGCGTCCGTAAGCGCCGCC 87
 DB 1 GCCCGAGCGGAGCGGCGGAGTGAAGCGGGAGAGCGTCCGTAAGCGCCGCC 60

QY 88 TCCGAGGAGGTGAGCGGCGGAGTGGGGTCCGATCGTGTGAGTACTGTGAACCTG 147

DB 61 TCCGAGGAGGTGAGCGGCGGAGTGGGGTCCGATCGTGTGAGTACTGTGAACCTG 120
 QY 148 CGGCTTCAGGCGGAGCTTACCTGAGCTGGCCAGTGTGTGAAGACGATTCGGGGCAT 207
 DB 121 CGGCTTCAGGCGGAGCTTACCTGAGCTGGCCAGTGTGTGAAGACGATTCGGGGCAT 180
 QY 208 CGAGATCGAGTCGGGCGCTCGGGGGGACAGGTCCTTGTAGATAGATTAATGACAGCT 267
 DB 181 CGAGATCGAGTCGGGCGCTCGGGGGGACAGTGTCTTGTAGATAGATTAATGACAGCT 240
 QY 268 GGTGTTCACAGCTGAGAAATGGGGCTTTCCTATGAGAAAGATCTCATTTGAGGCCAT 327
 DB 241 GGTGTTCACAGCTGAGAAATGGGGCTTTCCTATGAGAAAGATCTCATTTGAGGCCAT 300
 QY 328 CCGAAGAGCCGATATGAGAAACCTTGAAGAAATATCACACAGCCGCTCTCCCTGCGT 387
 DB 301 CCGAAGAGCCGATATGAGAAACCTTGAAGAAATATCACACAGCCGCTCTCCCTGCGT 360
 QY 388 CATCTGTGACTGACACAGGACTCTGGGTCCTGCTGTGTGAGGGTCGAAACCTTGCTC 447
 DB 361 CATCTGTGACTGACACAGGACTCTGGGTCCTGCTGTGTGAGGGTCGAAACCTTGCTC 420
 QY 448 TCCCTTGTGCTCTGCGGAGCTCCCTGCTCTTTCCTACTAGCTCTTAGCAAA 507
 DB 421 TCCCTTGTGCTCTGCGGAGCTCCCTGCTCTTTCCTACTAGCTCTTAGCAAA 480
 QY 508 GAGACCTGCGCTCTCACTTTGCTTGGGTGACAAAGAGAAATGAAATTCGTGCGC 567
 DB 481 GAGACCTGCGCTCTCACTTTGCTTGGGTGACAAAGAGAAATGAAATTCGTGCGC 540
 QY 568 TTGGGGGAGGAGAGAGACCTCTCCATGAACATCTTCCAGCAGCTCATACCCCTTC 627
 DB 541 TTGGGGGAGGAGAGAGACCTCTCCATGAACATCTTCCAGCAGCTCATACCCCTTC 600
 QY 628 CCAAGGTAAAGTCCCAAGAAAGCCAGTTCAGCTTGGCTGCTGTAATACCTGTCTGATG 687
 DB 601 CCAAGGTAAAGTCCCAAGAAAGCCAGTTCAGCTTGGCTGCTGTAATACCTGTCTGATG 660
 QY 688 CCAAGATTTTATTTATTTCTCCCTAACCCAGGCAATGTGAGTATTTGGCATTAAGTG 747
 DB 661 CCAAGATTTTATTTATTTCTCCCTAACCCAGGCAATGTGAGTATTTGGCATTAAGTG 720
 QY 748 GCGCTACAAACACTTAATAAAAAAAAAAAAAA 775
 DB 721 GCGCTACGAGCAATAATAAAAAAAAAAAAAA 748

RESULT 6
 AAI17193
 ID AAI17193 standard; cDNA; 725 BP.
 XX AAI17193;
 AC AAI17193;
 DT 22-JAN-2002 (first entry)
 DE Human C35 coding sequence #2.
 XX Human; C35; cytoskeletal; gene therapy; vaccine; tumour antigen; ss;
 XX Human; breast cancer; bladder cancer; tumour immunotherapy; chromosome 17q12.
 OS Homo sapiens.
 PN WO200174859-A2.
 PD 11-OCT-2001.
 PF 04-APR-2001; 2001WO-US10855.

Key Location/Qualifiers
 CDS 22..369
 FT /*tag= a
 FT /product= "Human C35"

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XX 04-APR-2000; 2000US-194463P.
PR (UYRP ) UNIV ROCHESTER.
XX Zauderer M, Evans EE, Borrello MA;
XX WPI; 2001-626383/72.
XX P-PsDB; AAC78997.
XX
XX Novel C35 polypeptides and C35 genes useful in immunogenic compositions
XX PT and vaccines, for inducing antibody and cell-mediated immunity against
XX PT target cells, such as tumor cells that express C35 gene
XX
XX Example 5; Fig 10A; 331pp; English.
XX
XX The present sequence is human C35 coding sequence. C35 is a novel tumour
XX CC antigen that is overexpressed in human breast and bladder carcinoma. C35
XX CC is thought to be a promising candidate for tumour immunotherapy, in
XX CC immunogenic compositions and vaccines, to induce antibody and
XX CC cell-mediated immunity against target cells such as tumour cells that
XX CC express C35 genes. The C35 gene aligns on human chromosome 17q12.
XX
XX SQ Sequence 725 BP; 150 A; 214 C; 207 G; 154 T; 0 other;
XX
XX Query Match 83.4%; Score 705; DB 22; Length 725;
XX Best Local Similarity 99.2%; Pred. No. 1,2e-119;
XX Matches 719; Conservative 0; Mismatches 5; Indels 1; Gaps 1;
XX
XX 30 CCGAGGCGAGCCGCGCGCATGAGCGGGAGCCGGGCGAGACGTCGTAAGCCGCCCTC 89
XX |||
XX 2 CCGAGGCGAGCCGCGCGCATGAGCGGGAGCCGGGCGAGACGTCGTAAGCCGCCCTC 61
XX
XX 90 CCGAGAGAGGTGAGCCGCGCGCATGAGCGGGAGCCGGGCGAGACGTCGTAAGCCCTGCG 149
XX |||
XX 62 CCGAGAGAGGTGAGCCGCGCGCATGAGCGGGAGCCGGGCGAGACGTCGTAAGCCCTGCG 121
XX
XX 150 GCTTCGAGGCGAGCCGCGCGCATGAGCGGGAGCCGGGCGAGACGTCGTAAGCCGGGCGATCG 209
XX |||
XX 122 GCTTCGAGGCGAGCCGCGCGCATGAGCGGGAGCCGGGCGAGACGTCGTAAGCCGGGCGATCG 181
XX
XX 210 AGATCGAGTGGCGCGCTGGGGGCGACAGGTGCTTGAAGATGAGATGAAGTGAAGTGAAGTGA 269
XX |||
XX 182 AGATCGAGTGGCGCGCTGGGGGCGACAGGTGCTTGAAGATGAGATGAAGTGAAGTGAAGTGA 241
XX
XX 270 TGTTCCTCAAGCTGGAAGATGGGGGCTTCCCTATGAGAAAGATCTGATGAGGCCATCC 329
XX |||
XX 242 TGTTCCTCAAGCTGGAAGATGGGGGCTTCCCTATGAGAAAGATCTGATGAGGCCATCC 301
XX
XX 330 GAAGAGCCAGTAAATGAGAAACCTAGAAAGATCACCAACAGCGCTCCCTCGCGTCA 389
XX |||
XX 302 GAAGAGCCAGTAAATGAGAAACCTAGAAAGATCACCAACAGCGCTCCCTCGCGTCA 361
XX
XX 390 TCCTGTACTGACACAGACTCTGGGATTCGCTCTGTTCGGGGTCCAAACCTTGTGCTC 449
XX |||
XX 362 TCCTGTACTGACACAGACTCTGGGATTCGCTCTGTTCGGGGTCCAAACCTTGTGCTC 421
XX
XX 450 CTTTGTGCTGCTGCTGAGAGTCTCCCTGCTCTTCCCTTACTTAAAGTCTTAAAGTCTTAAAGT 509
XX |||
XX 422 CTTTGTGCTGCTGCTGAGAGTCTCCCTGCTCTTCCCTTACTTAAAGTCTTAAAGTCTTAAAGT 481
XX
XX 510 GACCCCTGAGCTGACCTTGGCTTGGGATTAAGAAAGATTAAGATTAAGATTAAGATTAAGATTA 569
XX |||
XX 482 GACCCCTGAGCTGACCTTGGCTTGGGATTAAGAAAGATTAAGATTAAGATTAAGATTAAGATTA 541
XX
XX 570 GGGGGGAGAGAGAGACACTCTCCATGACACTCTCCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 629
XX |||
XX 542 GGGGGGAGAGAGAGACACTCTCCATGACACTCTCCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 600
XX
XX 630 AGGGTAAGTGGCCACGAAAGCCAGTCACTTTCGCTCGGTATATACCTGTCTGATGCC 689
XX |||
XX 601 AGGGTAAGTGGCCACGAAAGCCAGTCACTTTCGCTCGGTATATACCTGTCTGATGCC 660

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QY 690 ACAGATTTATTTATTTCTCCCTTAACCCAGGGCAATGTCAGTATTGGCAGTAAGTGGC 749
DB |||
DB 661 ACAGATTTATTTATTTCTCCCTTAACCCAGGGCAATGTCAGTATTGGCAGTAAGTGGC 720
QY 750 GCTAC 754
DB |||
DB 721 GCTAC 725
DB
RESULT 7
ABQ56132
ID ABQ56132 standard; cDNA; 762 BP.
XX
XX ABQ56132;
AC
XX 22-AUG-2002 (first entry)
DT
XX
XX Human ovarian antigen HVCA468 cDNA, SEQ ID NO:2012.
DE
XX
XX Human; ovarian antigen; ovary; ovarian; breast; cancer; tumour;
KW ovarian cancer; breast cancer; tumour; reproductive system disorder;
KW infertility; pregnancy disorder; anovulation; polycystic ovary syndrome;
KW PCOS; ovarian cyst; dysmenorrhea; endocrine disorder; infection;
KW inflammatory condition; immune disorder; blood disorder;
KW cardiovascular disorder; respiratory disorder; neurological disorder;
KW gastrointestinal disorder; urinary system disorder; drug screening;
KW gene therapy; chromosome mapping; forensic analysis;
KW antibody preparation; cytostatic; immunomodulatory; neuroprotective;
KW antiinflammatory; gynaecological; reproductive; gene; ss.
XX
XX Homo sapiens.
OS
XX
XX W020020677-A1.
PN
XX
XX 03-JAN-2002.
PD
XX
XX 07-JUN-2001; 2001MO-US18569.
PF
XX
XX 07-JUN-2000; 2000US-209467P.
PR
XX
XX (HUMA-) HUMAN GENOME SCI INC.
PA
XX
XX Birse CE, Rosen CA;
PI
XX
XX WPI: 2002-147878/19.
DR
XX
XX P-PsDB; ABP43055.
PT
XX
XX isolated nucleic acid molecules encoding novel ovarian polypeptides,
PT useful in the prevention, treatment and diagnosis of cancer (e.g.
PT ovarian cancer), immune disorders, cardiovascular disorders and
PT neurological diseases -
XX
XX Claim 1; SEQ ID NO 2012; 2922pp; English.
PS
XX
XX The invention relates to 2175 novel human ovarian antigens (ABP41054-
XX ABP43228) and to cDNAs encoding them (ABQ54111-ABQ56305), and also
XX encompasses polypeptides 90% identical and polynucleotides 95% identical
XX to the sequences of the invention. The invention additionally relates to
XX recombinant vectors and host cells comprising human ovarian antigen
XX polynucleotides, antibodies against human ovarian antigens, and the use
XX of ovarian antigen polynucleotides and polypeptides in diagnosing,
XX treating, prognosing or preventing various ovary and/or breast-related
XX disorders. Such conditions include ovarian cancer and breast cancer, and
XX metastatic tumours of ovarian or breast origin, reproductive system
XX disorders (e.g., infertility, disorders of pregnancy, anovulation,
XX polycystic ovary syndrome, ovarian cysts, and dysmenorrhea), endocrine
XX disorders, infections (e.g., chlamydia, HIV, toxoplasmosis, and toxic
XX shock syndrome), inflammatory conditions (e.g., mastitis, oophoritis and
XX vaginitis), immune disorders (e.g., congenital and acquired
XX immunodeficiencies, autoimmune oophoritis, systemic lupus erythematosus),
XX blood-related disorders (e.g., anaemia), cardiovascular disorders,
XX respiratory disorders, neurological disorders, gastrointestinal disorders
XX and urinary system disorders. Ovarian antigen polypeptides and

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CC polynucleotides may also be used in screening for compounds which
 CC modulate ovarian antigen expression or activity. The polynucleotides may
 CC further be used for gene therapy, chromosome mapping, in the
 CC identification of individuals and in forensic analysis, and the
 CC polypeptides may be used as food additives or to prepare antibodies
 CC useful in disease diagnosis, drug targeting and phenotyping. The present
 CC sequence represents cDNA encoding a human ovarian antigen of the
 CC invention.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 762 BP; 167 A; 215 C; 210 G; 163 T; 7 other;

Query Match 77.4%; Score 653.8; DB 24; Length 762;
 Best Local Similarity 96.9%; Pred. No. 2.6e-110;
 Matches 677; Conservative 0; Mismatches 19; Indels 3; Gaps 1;

QY 26 GGGCCCGAGCGGAGCGGCGCGATGAGCGGGGAGCCGGGCGAGCGTCCGTAGCGGCC 85
 DB 5 GGGGCGCGAGCGGAGCGGCGCGATGAGCGGGGAGCGGCGGCGAGCGTCCGTAGCGGCC 64
 QY 86 CCTCCCGAGAGGTGAGCGGCGGCGAGTGGGGTCCGATGTGTGTGAGTACTGTGAACC 145
 DB 65 CCTCCCGAGAGGTGAGCGGCGGCGAGTGGGGTCCGATGTGTGTGAGTACTGTGAACC 124
 QY 146 TCGCGCTTGAAGCGGAGCGGCGGCGAGTGGGGTCCGATGTGTGTGAGTACTGTGAACC 205
 DB 125 TCGCGCTTGAAGCGGAGCGGCGGCGAGTGGGGTCCGATGTGTGTGAGTACTGTGAACC 184
 QY 206 ATCGAGATGAGTGGCGGCGGCGGCGAGTGGGGTCCGATGTGTGTGAGTACTGTGAACC 265
 DB 185 ATCGAGATGAGTGGCGGCGGCGGCGAGTGGGGTCCGATGTGTGTGAGTACTGTGAACC 244
 QY 266 CTGGTGTCTTCCAGCTGGAAGATGGGGGCTTCCCTATGAGAAAGATCTTGAAGGCC 325
 DB 245 CTGGTGTCTTCCAGCTGGAAGATGGGGGCTTCCCTATGAGAAAGATCTTGAAGGCC 304
 QY 326 ATCCGAGAGCGGAGTGAAGAGAAACCTAGAAAGATCAACAGCGCGTCCCTCCGCG 385
 DB 305 ATCCGAGAGCGGAGTGAAGAGAAACCTAGAAAGATCAACAGCGCGTCCCTCCGCG 364
 QY 386 GTGATCTGTGACTGACAGAGACTGTGGGTTCTGTCTGTCTGGGGTCCAAACCTTGG 445
 DB 365 GTGATCTGTGACTGACAGAGACTGTGGGTTCTGTCTGTCTGGGGTCCAAACCTTGG 424
 QY 446 TCTCCCTTGTGCTGCTGGAGCTCCCGCTGCTCTTCCCTTACCTTACTGCTTGAACA 505
 DB 425 TCTCCCTTGTGCTGCTGGAGCTCCCGCTGCTCTTCCCTTACCTTACTGCTTGAACA 484
 QY 506 AAGAGACCTGGGCTCCGACTTGGGCTTGGGTAAAGAAAGAAATTAAGATTCCTCTGG 565
 DB 485 AAGAGACCTGGGCTCCGACTTGGGCTTGGGTAAAGAAAGAAATTAAGATTCCTCTGG 544
 QY 566 CTTGGGGGCGAG 625
 DB 545 CTTGGGGGCGAG 604
 QY 626 TCCGAGGTAAGTGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 685
 DB 605 TCCGAGGTAAGTGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 664
 QY 686 TG---CCAGAGTTTATTTATTTCTCCCTAACCAGGG 721
 DB 665 TGCCCCGAGATTTTATTTATTTCTCCCTAACCAGG 703

RESULT 8
 ID ABV23648/c
 XX ABV23648 standard; cDNA; 814 BP.
 AC ABV23648;
 XX

DT 16-SEP-2002 (first entry)
 XX Human prostate expression marker cDNA 23639.
 DE Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
 XX pharmacogenomic marker; gene; ss.
 KW Homo sapiens.
 XX WO200160860-A2.
 PN 23-AUG-2001.
 PD 20-FEB-2001; 2001WO-US05171.
 PF 17-FEB-2000; 2000US-183319P.
 PR 16-MAR-2000; 2000US-189862P.
 PR 25-MAY-2000; 2000US-207454P.
 PR 09-JUN-2000; 2000US-211314P.
 PR 18-JUL-2000; 2000US-219007P.
 PR 13-DEC-2000; 2000US-255281P.
 XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
 PA Schlegel R, Endege WO, Monahan JB;
 PI WPI, 2001-662795/76.
 DR Novel isolated nucleic acid molecule associated with cancerous state of
 XX prostate cells and correlating with presence of prostate cancer, useful
 XX for detecting presence of prostate cancer, stage of prostate cancer -
 PS Claim 1; Page 4333-4334; 11750pp; English.
 XX The invention relates to an isolated nucleic acid molecule (I) comprising
 CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the
 CC specification or its complement. (I) is useful for:
 CC (a) assessing whether a patient is afflicted with prostate cancer;
 CC (b) monitoring the progression of prostate cancer in a patient;
 CC (c) assessing the efficacy of a test compound to inhibit prostate
 CC cancer in a patient;
 CC (d) assessing the efficacy of a therapy for inhibiting prostate cancer
 CC in a patient;
 CC (e) selecting a composition for inhibiting prostate cancer in a patient;
 CC (f) assessing the prostate cell carcinogenic potential of a compound;
 CC (g) determining whether prostate cancer has metastasized in a patient;
 CC (h) assessing the aggressiveness or indolence of prostate cancer in a
 CC patient;
 CC (i) is also useful as a pharmacodynamic or pharmacogenomic marker.
 XX Sequence 814 BP; 181 A; 202 C; 231 G; 199 T; 1 other;

Query Match 66.9%; Score 565.2; DB 23; Length 814;
 Best Local Similarity 93.4%; Pred. No. 3.7e-94;
 Matches 622; Conservative 0; Mismatches 18; Indels 26; Gaps 2;

QY 139 TGAACCTGGGCGGCTTCAAGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 198
 DB 792 TGAACCTGGGCGGCGGCTTGGGCTTGGGCTTGGGCTTGGGCTTGGGCTTGGGCTT 733
 QY 199 TCCGCGGATGAGATGAGTGGCGGCTCGGGGGGAGCA----- 235
 DB 732 TCCGCGGATGAGATGAGTGGCGGCTCGGGGGGAGCA----- 235
 QY 236 -GGTGGCTTTGAGATGAGATGAATGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 293
 DB 672 TGGGTGCTTTGAGATGAGATGAATGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 613
 QY 294 GCTTCCCTTGAAGAAAGATCTATTGAGGCGCATCCGAAGAGAGAGAGAGAGAGAGAG 353
 DB 612 GCTTCCCTTGAAGAAAGATCTATTGAGGCGCATCCGAAGAGAGAGAGAGAGAGAGAG 553
 QY 354 TAGAAAGATCAACAGAGCGGCTCCCTGC-GTCATCTGTGACTGACAGAGACTGTG 412

Db 552 TAGAAAAGATCACCAACAGCGCCCTCCCTGCGGTATCCGTGACTGCACAGGACTCTG 493
 Qy 413 GGTTCCTGCTCTGTCTTGGGGTCCAAACCTTGGTCTCCCTTGGTCTGCTGGAGTCC 472
 Db 492 GGTTCCTGCTCTGTCTTGGGGTCCAAACCTTGGTCTCCCTTGGTCTGCTGGAGTCC 433
 Qy 473 CCGTCTCTCTCCCTACTAGTCTCTTACCAAGAGACCCCTGCTCCACTTGGCT 532
 Db 432 CCGTCTCTCTCCCTACTAGTCTCTTACCAAGAGACCCCTGCTCCACTTGGCT 373
 Qy 533 TTGGGTCAAAAGAAAGATAGAAATTCCTGGCTTGGGGGCGAGAGACACTCTC 592
 Db 372 TTGGGTCAAAAGAAAGATAGAAATTCCTGGCTTGGGGGCGAGAGACACTCTC 313
 Qy 593 CATGAACACTTCTCCAGCACTATACCCCTTCCAGAGGTAGTCCCAAGAACCC 652
 Db 312 CATGAACACTTCTCCAGCACTATACCCCTTCCAGAGGTAGTCCCAAGAACCC 253
 Qy 653 AGTCACTCTTCCGCTGCTGATACCTGCTGATGCAAGATTTTATTCTCCCT 712
 Db 252 AGTCACTCTTCCGCTGCTGATACCTGCTGATGCAAGATTTTATTCTCCCT 193
 Qy 713 AACCCAGGCAATGCTAGCTATTGGCAGTAAAGTGGCGCTACAAACCTAAAAA 772
 Db 192 AACCCAGGCAATGCTAGCTATTGGCAGTAAAGTGGCGCTACAAACCTAAAAA 133
 Qy 773 AAAAA 778
 Db 332 AAAAA 127

RESULT 9

ABV44776 ID ABV44776 standard; cDNA; 602 BP.
 XX AC ABV44776;
 XX DT 16-SEP-2002 (first entry)
 XX DE Human prostate expression marker cDNA 44767.
 XX KW Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
 XX KM pharmacogenomic marker; gene; ss.
 XX OS Homo sapiens.
 XX PN WO200160860-A2.
 XX PD 23-AUG-2001.
 XX PF 20-FEB-2001; 2001WO-US05171.
 XX PR 17-FEB-2000; 2000US-183319P.
 XX PR 16-MAR-2000; 2000US-189862P.
 XX PR 25-MAY-2000; 2000US-207454P.
 XX PR 09-JUN-2000; 2000US-211314P.
 XX PR 18-JUL-2000; 2000US-219007P.
 XX PR 13-DEC-2000; 2000US-255281P.
 XX PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
 XX PI Schlegel R, Endege WO, Monahan JE;
 XX DR WPI; 2001-662795/76.
 XX PT Novel isolated nucleic acid molecule associated with cancerous state of
 XX PT prostate cells and correlating with presence of prostate cancer, useful
 XX PT for detecting presence of prostate cancer, stage of prostate cancer -
 XX PS Claim 1, Page 8878, 11750pp; English.
 XX CC The invention relates to an isolated nucleic acid molecule (I) comprising

CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the
 CC specification or its complement. (I) is useful for:
 CC (a) assessing whether a patient is afflicted with prostate cancer;
 CC (b) monitoring the progression of prostate cancer in a patient;
 CC (c) assessing the efficacy of a test compound to inhibit prostate
 CC cancer in a patient;
 CC (d) assessing the efficacy of a therapy for inhibiting prostate cancer
 CC in a patient;
 CC (e) selecting a composition for inhibiting prostate cancer in a patient;
 CC (f) assessing the prostate cell carcinogenic potential of a compound;
 CC (g) determining whether prostate cancer has metastasized in a patient;
 CC (h) assessing the aggressiveness or indolence of prostate cancer in a
 CC patient;
 CC (i) is also useful as a pharmacodynamic or pharmacogenomic marker.
 XX

Sequence 602 BP; 124 A; 173 C; 176 G; 127 T; 2 other;
 Query Match 66.9%; Score 565; DB 23; Length 602;
 Best Local Similarity 99.8%; Pred. No. 3, 9e-94;
 Matches 565; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 54 GCGGGAGCCGGGGCAGAGCTCCGTAGCCGCCCTCCGAGAGGTCGAGCCGGGAGTG 113
 Db 37 GCGGGAGCCGGGGCAGAGCTCCGTAGCCGCCCTCCGAGAGGTCGAGCCGGGAGTG 96
 Qy 114 GGGTCCGCACTCGTGTGAGTACTGTGAACCCCTGCGGCTTTCGAGGCACTTCTGAGC 173
 Db 97 GGGTCCGCACTCGTGTGAGTACTGTGAACCCCTGCGGCTTTCGAGGCACTTCTGAGC 156
 Qy 174 TGGCAGTGTCTGTGAAGAGACAGTATCCGGGCACTGAGATGATGCGCTTGGGGCA 233
 Db 157 TGGCAGTGTCTGTGAAGAGACAGTATCCGGGCACTGAGATGATGCGCTTGGGGCA 216
 Qy 234 CAGTGTCTTGTGATGAGATGATGAGACAGTGTGTTCTGCAAGCTGGAATGGGG 293
 Db 217 CAGTGTCTTGTGATGAGATGATGAGACAGTGTGTTCTGCAAGCTGGAATGGGG 276
 Qy 294 GCTTCCCTATGAGAAAGATCTCATTGAGGCCATCCGAGAGCCAGTATGAGAAACC 353
 Db 277 GCTTCCCTATGAGAAAGATCTCATTGAGGCCATCCGAGAGCCAGTATGAGAAACC 336
 Qy 354 TAGAAAAGATCAACCAAGCCGCTCTCCCTGCTCATCTGTACATGACAGACTCTGG 413
 Db 337 TAGAAAAGATCAACCAAGCCGCTCTCCCTGCTCATCTGTACATGACAGACTCTGG 396
 Qy 414 GTTCTGCTCTGTCTGGGGTCCAAACCTTGTCTCCCTTGGTCTGCTGGAGCTCC 473
 Db 397 GTTCTGCTCTGTCTGGGGTCCAAACCTTGTCTCCCTTGGTCTGCTGGAGCTCC 456
 Qy 474 CTTGCTCTTCCCTACTAGTCTCTTACCAAGAGACCCCTGACCTTCTGCTT 533
 Db 457 CTTGCTCTTCCCTACTAGTCTCTTACCAAGAGACCCCTGACCTTCTGCTT 516
 Qy 534 TGGGTACAAAGAAAGATAGAAATTCCTGGCTTGGGGGCGAGAGAGACACTTCC 593
 Db 517 TGGGTACAAAGAAAGATAGAAATTCCTGGCTTGGGGGCGAGAGAGACACTTCC 576
 Qy 594 ATGAACACTTCTCCAGCACTCATATA 619
 Db 577 ATGAACACTTCTCCAGCACTCATATA 602

RESULT 10

ABV14903 ID ABV14903 standard; cDNA; 875 BP.
 XX AC ABV14903;
 XX DT 13-SEP-2002 (first entry)
 XX DE Human prostate expression marker cDNA 14894.
 XX KM Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;

KW pharmacogenomic marker; gene; ss.
 OS Homo sapiens.
 XX MO200160860-A2.
 XX 23-AUG-2001.
 XX 20-FEB-2001; 2001WO-US05171.
 XX 17-FEB-2000; 2000US-183319P.
 PR 16-MAR-2000; 2000US-189862P.
 PR 25-MAY-2000; 2000US-207454P.
 PR 09-JUN-2000; 2000US-211314P.
 PR 18-JUL-2000; 2000US-219007P.
 PR 13-DEC-2000; 2000US-255281P.
 XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
 PA Schlegel R, Endege WO, Monahan JE;
 PI MPI; 2001-662795/76.
 XX Novel isolated nucleic acid molecule associated with cancerous state of
 PT prostate cells and correlating with presence of prostate cancer, useful
 PT for detecting presence of prostate cancer, stage of prostate cancer -
 XX
 PS Claim 1, Page 2496; 11750pp; English.
 CC The invention relates to an isolated nucleic acid molecule (1) comprising
 CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the
 CC specification or its complement. (1) is useful for:
 CC (a) assessing whether a patient is afflicted with prostate cancer;
 CC (b) monitoring the progression of prostate cancer in a patient;
 CC (c) assessing the efficacy of a test compound to inhibit prostate
 CC cancer in a patient;
 CC (d) assessing the efficacy of a therapy for inhibiting prostate cancer
 CC in a patient;
 CC (e) selecting a composition for inhibiting prostate cancer in a patient;
 CC (f) assessing the prostate cell carcinogenic potential of a compound;
 CC (g) determining whether prostate cancer has metastasized in a patient;
 CC (h) assessing the aggressiveness or indolence of prostate cancer in a
 CC patient;
 CC (1) is also useful as a pharmacodynamic or pharmacogenomic marker.
 CC
 XX Sequence 875 BP; 204 A; 241 C; 216 G; 210 T; 4 other;
 SQ
 Query Match 55.5%; Score 469; DB 23; Length 875;
 Best Local Similarity 84.7%; Pred. No. 1.3e-76;
 Matches 572; Conservative 0; Mismatches 75; Indels 28; Gaps 3;
 QY 139 TGAACCCGCGGCTTCGAGGCGCACTACCTGAGCTGCGCACTGCTGGAAGAGCAGTA 198
 DB 89 TCAGCGCGGGGGCTTCGTCGCACTACCTGAGCTGCGCACTGCTGGAAGAGCAGTA 148
 QY 199 TCCGGGCGATCGAGATCGAGTGGCGGCGGCGCA----- 235
 DB 149 TTCGGGCGATCGAGATCGAGTGGCGGCGGCGCAAGGTGAGTGCATTAACACCTTCT 208
 QY 236 -GGTCCCTTTGAGATAGATTAATGACAGCTGCTGTTCTTCAAGCTGAGAAATG3GGG 294
 DB 209 GGGTCCCTTTGAGATAGATTAATGACAGCTGCTGTTCTTCAAGCTGAGAAATG3GGG 268
 QY 295 CTTTCCCTATGAGAAAGATTCATTTGAGGCGCATCCGAAGAGCAGTAATGAGAAACCTT 354
 DB 269 CTTTCCCTATGAGAAAGATTCATTTGAGGCGCATTCGAAGAGCAGTAATGAGAAACCTT 328
 QY 355 AGAAAGATTCACCAACAGCCGCTCTCTCTGC-GTCATCTGTGATGACAGAACTTGG 413
 DB 329 AGAAAGATTCACCAACAGCCGCTCTCTCTGC-GTCATCTGTGATGACAGAACTTGG 388
 QY 414 GTTCTGCTGTGTTGGGGTTCAGAAACCTTGGTCTTCCCTTGGTCTGCTGGAGCTTCC 473

DB 389 GTTCTGCTGTGTTGGGGTTCAGAAACCTTGGTCTTCCCTTGGTCTGAGAGCTCCC 448
 QY 474 CTTGCTCTTTTCCCTTACTAGCTCTCTTACGAAAGAGACCTTGGCTTCACTTGGCTT 533
 DB 449 CTTGCTCTTTTCCCTTACTAGCTCTTACGAAAGAGACCTTGGCTTCACTTGGCTT 508
 QY 534 TGGGTACAAAGAGATAGAAAGATTCCGTGCGCTTGGGGGAGAGAGACACTTCC 593
 DB 509 TGGGTACAAAGAGATAGAAAGATTCCGTGCGCTTGGGGGAGAGAGACACTTCC 568
 QY 594 ATGAACACTTTCACGACCATCATATCCCTTCCAGAGGTAAGTCCACAGAAACCCA 653
 DB 569 ATGAACACTTTCGACGATCTTATATCCCAATGCGAGGTTAGTCCACAGAGCTCA 628
 QY 654 GTTCACTTTCGCTCGGTAATACCTGTCTGATGACAGATTTTATTATTTCCCTTA 713
 DB 629 GTTCACTTTCGCTCGGTAATACCTGTCTGATGACAGATTTTATTATTTCCCTTA 688
 QY 714 ACCGAGGCAATGCTAGCTATTTGGCAGTAAAGTGAGCGCTTACAAACATTAATAA 773
 DB 689 ACCGAGGCAATGCTAGCTATTTGGCAGTAAAGTGAGCGCGCTTATCTCCCAATAA 745
 QY 774 AAAAAAAAAAAAAA 788
 DB 746 TTGTTTCAAGAAA 760
 RESULT 11
 AAH5578
 ID AAH5578 standard; DNA; 404 BP.
 XX
 AC AAH5578;
 DT 04-SEP-2001 (first entry)
 XX
 DE Human breast tumour protein contig 62 DNA sequence.
 XX
 KW Cytostatic; vaccine; human; breast-tumour protein; breast cancer;
 KW gene therapy; ds.
 XX
 OS Homo sapiens.
 XX
 PN MO200140269-A2.
 XX
 PD 07-JUN-2001.
 XX
 PF 29-NOV-2000; 2000WO-US32520.
 XX
 PR 30-NOV-1999; 99US-0451651.
 PR 22-FEB-2000; 2000US-0510662.
 PR 10-MAR-2000; 2000US-0523586.
 PR 07-APR-2000; 2000US-0545068.
 PR 15-MAY-2000; 2000US-0571025.
 XX
 PA (CORI-) CORIXA CORP.
 XX
 PI Dillon DC, Day CH, Jiang Y, Houghton RL, Mitcham JL, Wang A;
 XX
 DR MPI; 2001-356154/37.
 XX
 PT Breast tumor polypeptides and the nucleic acids that encode them,
 PT useful for the prevention, diagnosis and treatment of breast cancer -
 XX
 PS Claim 5, Page 154; 221pp; English.
 XX
 CC The present sequence is a human breast tumour protein coding sequence.
 CC This sequence may be used in the prevention, diagnosis and treatment of
 CC diseases associated with inappropriate expression of the breast tumour
 CC protein e.g. breast cancer. For example, this sequence may be used to
 CC treat disorders associated with decreased expression by rectifying
 CC mutations or deletions in a patient's genome that affect the activity of
 CC breast tumour protein by expressing inactive proteins or to supplement
 CC the patients own production of the breast tumour protein. Additionally,

CC the present sequence may be used to produce the breast tumour protein, by
 CC inserting the nucleic acids into a host cell and culturing the cell to
 CC express the protein. The present sequence and its complementary sequences
 CC may also be used as DNA probes in diagnostic assays to detect and
 CC quantitate the presence of similar nucleic acids in samples, and
 CC therefore which patients may be in need of restorative therapy.

XX Sequence 404 BP; 81 A; 115 C; 109 G; 95 T; 4 other;

Query Match 47.3%; Score 400; DB 22; Length 404;
 Best Local Similarity 99.0%; Pred. No. 4.4e-64;
 Matches 400; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 135 ACTGTGAACCTCGGCTTCGAGCGCACTTACTGTGAGCTGCGCAGTGTGAGAGAGC 194
 DB 1 ACTGTGAACCTCGGCTTCGAGCGCACTTACTGTGAGCTGCGCAGTGTGAGAGAGC 60
 QY 195 AGTATCCGGGATCGAGATCGAGTCGCGCTCGGGGCGACAGGTGCTTGTGATGAGA 254
 DB 61 AGTATCCGGGATCGAGATCGAGTCGCGCTCGGGGCGACAGGTGCTTGTGATGAGA 120
 QY 255 TAATGAGACGCTGCTTCTCCAGCTGAGAGATGGGGGCTTCCCTATGAGAGATC 314
 DB 121 TAATGAGACGCTGCTTCTCCAGCTGAGAGATGGGGGCTTCCCTATGAGAGATC 180
 QY 315 TCATTGAGGCGCATCCGAGAGCCAGTATGAGAGAACTTGAAGATCACAACAGCC 374
 DB 181 TCATTGAGGCGCATCCGAGAGCCAGTATGAGAGAACTTGAAGATCACAACAGCC 240
 QY 375 GTCTCCCTCGCTGATCTCTGTGACTGACAGAGACTCTGGGTTCTGCTGTGTTG 434
 DB 241 GTCTCCCTCGCTGATCTCTGTGACTGACAGAGACTCTGGGTTCTGCTGTGTTG 300
 QY 435 CCAACCTGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 494
 DB 301 CCAACCTGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360
 QY 495 GCTCTTGAAG 538
 DB 361 GCTCTTGAAG 404

RESULT 12

ABV38989 standard; cDNA; 517 BP.

XX ABV38989;

XX 16-SEP-2002 (first entry)

DE Human prostate expression marker cDNA 38980.

XX Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
 KW pharmacogenomic marker; gene; ss.

XX Homo sapiens.

PN MO200160860-A2.

XX 23-AUG-2001.

PF 20-FEB-2001; 2001WO-US05171.

PR 17-FEB-2000; 2000US-183319P.

PR 16-MAR-2000; 2000US-189862P.

PR 25-MAY-2000; 2000US-207454P.

PR 09-JUN-2000; 2000US-211314P.

PR 18-JUL-2000; 2000US-219007P.

PR 13-DEC-2000; 2000US-255281P.

XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

PA Schlegel R, Endege WO, Monahan JE;

XX WPI; 2001-662795/76.

XX Novel isolated nucleic acid molecule associated with cancerous state of

PT prostate cells and correlating with presence of prostate cancer, useful

PT for detecting presence of prostate cancer, stage of prostate cancer

XX Claim 1; Page 7921; 11750P; English.

XX The invention relates to an isolated nucleic acid molecule (I) comprising

CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the

CC specification or its complement. (I) is useful for:

CC (a) assessing whether a patient is afflicted with prostate cancer;

CC (b) monitoring the progression of prostate cancer in a patient;

CC (c) assessing the efficacy of a test compound to inhibit prostate

CC cancer in a patient;

CC (d) assessing the efficacy of a therapy for inhibiting prostate cancer

CC in a patient;

CC (e) selecting a composition for inhibiting prostate cancer in a patient;

CC (f) assessing the prostate cell carcinogenic potential of a compound;

CC (g) determining whether prostate cancer has metastasized in a patient;

CC (h) assessing the aggressiveness or indolence of prostate cancer in a

CC patient;

CC (I) is also useful as a pharmacodynamic or pharmacogenomic marker.

XX Sequence 517 BP; 118 A; 138 C; 142 G; 119 T; 0 other;

Query Match 45.1%; Score 381.2; DB 23; Length 517;

Best Local Similarity 90.2%; Pred. No. 1.2e-60;

Matches 440; Conservative 0; Mismatches 23; Indels 25; Gaps 2;

QY 139 TGAACCTGCGGCTTCGAGCGAGCTTACTGTGAGCTGCGCAGTGTGAGAGAGAGAG 198

DB 30 TGAACCTGCGGCTTCGAGCGAGCTTACTGTGAGCTGCGCAGTGTGAGAGAGAGAG 89

QY 199 TCGGGGATGAGATGAGTGGCGCTCGGGGCGACA----- 235

DB 90 TCGGGGATGAGATGAGTGGCGCTCGGGGCGACA----- 235

QY 236 -GGTGCCTTGAATGAGATGAGTAAATGAGACAGCTGTTCTCCAGCTGAGAGAGAG 294

DB 150 GGTGCCTTGAATGAGATGAGTAAATGAGACAGCTGTTCTCCAGCTGAGAGAGAG 209

QY 295 CTTTCCCTATGAGAGAGATCTCATTTGAGGCGCATCGAGAGAGAGAGAGAGAGAG 354

DB 210 CTTTCCCTATGAGAGAGATCTCATTTGAGGCGCATCGAGAGAGAGAGAGAGAGAG 269

QY 355 AGAAAGATACCAACAGCGCTCTCTCTGC -GTATCTGTGATGAGAGAGAGAGAG 413

DB 270 AGAAAGATACCAACAGCGCGCTCTCTCTGTGATGAGAGAGAGAGAGAGAGAG 329

QY 414 GTTCCTGCTGTTCTGAGGAGTCCAAACCTTGCTCTCTGCTGCTGAGAGAGAG 473

DB 330 GTTCCTGCTGTTCTGAGGAGTCCAAACCTTGCTCTCTGCTGCTGAGAGAGAG 389

QY 474 CTGCTCTCTTCCCTACTAGTCTCTTGAAGAGAGAGAGAGAGAGAGAGAGAGAG 533

DB 390 CTGCTCTCTTCCCTACTAGTCTCTTGAAGAGAGAGAGAGAGAGAGAGAGAGAG 449

QY 534 TGGGTACAAAGAGAGATGAGATTCGCTGCTGAGGAGAGAGAGAGAGAGAGAG 593

DB 450 TGGGTACAAAGAGAGATGAGATTCGCTGCTGAGGAGAGAGAGAGAGAGAGAG 509

QY 594 ATGAACAC 601

DB 510 ATGAACAC 517

RESULT 13

AA171785 standard; cDNA; 354 BP.

XX AA171785;

XX 22-JAN-2002 (first entry)
 DT
 XX
 DE Human C35 coding sequence #1.
 XX
 XX
 KM Human; C35; cytostatic; gene therapy; vaccine; tumour antigen; ss;
 KM breast cancer; bladder cancer; tumour immunotherapy; chromosome 17q12.
 XX
 OS Homo sapiens.
 XX
 XX
 FT Key Location/Qualifiers
 FT CDS 7..354
 FT /*tag= a
 FT /product= "Human C35"
 XX
 PN WO200174859-A2.
 XX
 PD 11-OCT-2001.
 XX
 PF 04-APR-2001; 2001WO-US10855.
 XX
 PR 04-APR-2000; 2000US-194463P.
 XX
 PA (UVRP) UNIV ROCHESTER.
 XX
 PI Zauderer M, Evans BE, Borrello MA;
 XX
 DR MPI; 2001-626383/72.
 XX
 P-PSDB; AAG78997.
 XX
 PT Novel C35 polypeptides and C35 genes useful in immunogenic compositions
 PT and vaccines, for inducing antibody and cell-mediated immunity against
 PT target cells, such as tumor cells that express C35 gene
 XX
 PS Claim 1; Fig 1; 331pp; English.
 XX
 CC The present sequence is human C35 coding sequence. C35 is a novel tumour
 CC antigen that is overexpressed in human breast and bladder carcinoma. C35
 CC is thought to be a promising candidate for tumour immunotherapy, in
 CC immunogenic compositions and vaccines, to induce antibody and
 CC cell-mediated immunity against target cells such as tumour cells that
 CC express C35 genes. The C35 gene aligns on human chromosome 17q12.
 XX
 SQ Sequence 354 BP; 77 A; 94 C; 120 G; 63 T; 0 other;

Query Match 41.9%; Score 354; DB 22; Length 354;
 Best Local Similarity 100.0%; Pred. No. 1e-55;
 Matches 354; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

44 GCCGCGATGAGCGCGGAGCGCGGAGCGAGCGTCCGTAGGCGCCCTCCGAGAGGTGAG 103
 DB 1 GCCGCGATGAGCGCGGAGCGCGGAGCGAGCGTCCGTAGGCGCCCTCCGAGAGGTGAG 60
 OY 104 CCGGCGAGTGGGGTCCGATCGTGTGAGTACTGTGAACCTCGCGCTTCGAGGCGACC 163
 DB 61 CCGGCGAGTGGGGTCCGATCGTGTGAGTACTGTGAACCTCGCGCTTCGAGGCGACC 120
 OY 164 TACCGGAGCTGGCCAGTCTGTGAAGAGAGTATCCGGGATGAGATGAGTCCGGC 223
 DB 121 TACCGGAGCTGGCCAGTCTGTGAAGAGAGTATCCGGGATGAGATGAGTCCGGC 180
 OY 224 CTCGGGCGACAGGTGCTTTGAGATAGATTAATGAGACAGTGTGTTCTCCAAAGTG 283
 DB 181 CTCGGGCGACAGGTGCTTTGAGATAGATTAATGAGACAGTGTGTTCTCCAAAGTG 240
 OY 284 GAGAAATGGGGGCTTTCCTATGAGAAAGATTCATTGAGGCCATCCGAAGCCAGTAT 343
 DB 241 GAGAAATGGGGGCTTTCCTATGAGAAAGATTCATTGAGGCCATCCGAAGCCAGTAT 300
 OY 344 GAGAAATGGGGGCTTTCCTATGAGAAAGATTCATTGAGGCCATCCGAAGCCAGTAT 397
 DB 301 GAGAAATGGGGGCTTTCCTATGAGAAAGATTCATTGAGGCCATCCGAAGCCAGTAT 354

RESULT 14
 AAH77148
 ID AAH77148 standard; cDNA, 354 BP.
 XX
 AC AAH77148;
 XX
 DT 08-MAY-2002 (first entry)
 XX
 DE Human C35 gene cDNA sequence.
 XX
 XX
 KM C35; antigenic peptide; major histocompatibility complex; ss;
 KM MHC-peptide complex; MHC; human; MHC class I alpha chain; gene;
 KM beta-2 microglobulin; MHC class II alpha chain; MHC class II beta chain;
 KM vaccine; immune response modulation; hyperproliferative disorder;
 KM neoplasm; hypergammaglobulinaemia; viral infection; hepatitis;
 KM meningitis; bacterial infection; tuberculosis; gingivitis;
 KM parasitic infection; autoimmune disease; Hashimoto's disease;
 KM Graves' disease; rheumatoid arthritis; allergy; asthma; organ rejection;
 KM graft-versus-host disease; GVHD; breast cancer.
 XX
 OS Homo sapiens.
 XX
 XX
 FT Key Location/Qualifiers
 FT CDS 7..354
 FT /*tag= a
 FT /partial
 FT /product= "C35 protein"
 XX
 PN WO200178768-A2.
 XX
 PD 25-OCT-2001.
 XX
 PF 12-APR-2001; 2001WO-US11912.
 XX
 PR 12-APR-2000; 2000US-196472P.
 XX
 PA (UVRP) UNIV ROCHESTER.
 XX
 PI Zauderer M, Smith ES;
 XX
 DR MPI; 2001-602927/68.
 XX
 P-PSDB; AAG77870.
 XX
 PT Novel compound comprising major histocompatibility complex-peptide
 PT complexes, used to modulate immune responses
 XX
 PS Example 16; Fig 7; 166pp; English.
 XX
 CC The invention comprises a compound which contains one or more major
 CC histocompatibility complex (MHC)-peptide complexes, and an antibody
 CC specific for a cell surface marker. The complexes comprise an MHC class
 CC I alpha chain, a beta-2 microglobulin molecule and an antigenic peptide
 CC bound in the MHC groove. Alternatively, the complexes may comprise an MHC
 CC class II alpha chain, an MHC class II beta chain, and an antigenic
 CC peptide bound in the MHC groove. The complexes are linked to the carboxyl
 CC terminus of the antibody. The compounds of the invention can be used as a
 CC vaccine to modulate an immune response. The compounds of the invention
 CC are useful for treating: hyperproliferative disorders (e.g. neoplasms and
 CC hypergammaglobulinaemia); viral infections (e.g. hepatitis and
 CC meningitis); bacterial infections (e.g. tuberculosis and gingivitis);
 CC parasitic infections; autoimmune diseases (e.g. Hashimoto's disease;
 CC Graves' disease and rheumatoid arthritis); allergic reactions/conditions
 CC (e.g. asthma). The compounds of the invention may also be used in the
 CC treatment of organ rejection or graft-versus-host disease (GVHD). The
 CC present cDNA sequence represents a gene (C35) that is differentially
 CC expressed in human breast cancer cells. In one embodiment of the
 CC invention, antigenic peptides derived from C35 protein can be used to
 CC promote an immune response against a cancerous cell.
 XX
 SQ Sequence 354 BP; 77 A; 94 C; 120 G; 63 T; 0 other;

Query Match 41.9%; Score 354; DB 23; Length 354;

Best Local Similarity 100.0%; Pred. No. 1e-55;
Matches 354; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 44 GCGCGCATGAGCGGGGAGCGGGGACACGTCCTTACGCGCCCTCCCGAGAGGTGAG 103
DB 1 GCGCGCATGAGCGGGGAGCGGGGACACGTCCTTACGCGCCCTCCCGAGAGGTGAG 60
QY 104 CCGGCGCATGAGCGGGGAGCGGGGACACGTCCTTACGCGCCCTCCCGAGAGGTGAG 163
DB 61 CCGGCGCATGAGCGGGGAGCGGGGACACGTCCTTACGCGCCCTCCCGAGAGGTGAG 120
QY 164 TACCTGAGCTGCGCAGTGTGTGAGAGAGAGATTCGCGCATGAGATCGAGTCGCGC 223
DB 121 TACCTGAGCTGCGCAGTGTGTGAGAGAGAGATTCGCGCATGAGATCGAGTCGCGC 180
QY 224 CTGCGGGGCGACAGTGTGTGTGAGATGAGATTAAGACAGCTGTGTCTCCAGCTG 283
DB 181 CTGCGGGGCGACAGTGTGTGTGAGATGAGATTAAGACAGCTGTGTCTCCAGCTG 240
QY 284 GAGATGAGGGGCTTCCCTATGAGAAAGATCTCATTTAGAGCCATCCGAGAGCAGTAAT 343
DB 241 GAGATGAGGGGCTTCCCTATGAGAAAGATCTCATTTAGAGCCATCCGAGAGCAGTAAT 300
QY 344 GAGAAACCTTAGAAAGATCACCAACAGCCGTCCTCCGTCATCTGTGA 397
DB 301 GAGAAACCTTAGAAAGATCACCAACAGCCGTCCTCCGTCATCTGTGA 354

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RESULT 15
ABV96744
ID ABV96744 standard; cDNA; 346 BP.

XX AC ABV96744;

XX AC 14-JAN-2003 (first entry)

XX DE Human pancreatic cancer expressed cDNA SEQ ID NO 2152.

XX KM Human; pancreas; cancer; gene therapy; vaccine; immunostimulant;
XX cytostratic; tumour; gene; ss.

XX OS Homo sapiens.

XX PN WO200260317-A2.

XX PD 08-AUG-2002.

XX PF 30-JAN-2002; 2002WO-US02781.

XX PR 30-JAN-2001; 2001US-265305P.

XX PR 31-JAN-2001; 2001US-265682P.

XX PR 09-FEB-2001; 2001US-267568P.

XX PR 21-MAR-2001; 2001US-278651P.

XX PR 28-APR-2001; 2001US-287112P.

XX PR 16-MAY-2001; 2001US-291631P.

XX PR 12-JUL-2001; 2001US-305484P.

XX PR 20-AUG-2001; 2001US-313999P.

XX PR 27-NOV-2001; 2001US-333626P.

XX PA (CORI-) CORIXA CORP.

XX PI Benson DR, Kalos MD, Lodes MJ, Persing DH, Hepler WT, Jiang Y;

XX PT WPI; 2002-627435/67.

XX PT New isolated polynucleotide and pancreatic tumor polypeptides, useful
XX for diagnosing, preventing and/or treating cancer, particularly
XX pancreatic cancer
XX
XX Claim 1, SEQ ID NO 2152; 300bp + Sequence Listing; English.
XX
XX The invention relates to an isolated polynucleotide (I) comprising: (a)
XX any of a group of over 4000 nucleotide sequences (ABV94628-ABV99145);
XX
XX

CC (b) complements of (a); (c) sequences consisting of at least 20
CC contiguous residues of (a); (d) sequences that hybridize to (a), under
CC moderately stringent conditions; (e) sequences having at least 75% or 90%
CC identity to (a); or (f) degenerate variants of (a). Polypeptides
CC (ABP8596-ABP8637) encoded by (I) and oligonucleotide can be used to
CC detect cancer in a patient and compositions comprising polypeptides,
CC polynucleotides, antibodies, fusion proteins, T cell populations and
CC antigen presenting cells expressing the polypeptide are useful in
CC treating pancreatic cancer and stimulating an immune response. The
CC polynucleotides can be used as probes or primers for nucleic acid
CC hybridization, in the design and preparation of ribozyme molecules for
CC inhibiting expression of the tumour polypeptides and proteins in the
CC tumour cells, in vaccines and for gene therapy.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 346 BP; 70 A; 101 C; 91 G; 84 T; 0 other;

Query Match 40.9%; Score 346; DB 24; Length 346;

Best Local Similarity 100.0%; Pred. No. 3e-54; Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 193 GCAGTATCCGGGCGATGAGATCGAGTCGCGCTCGGGGCGACAGGTGCTTGAATAGA 252
DB 1 GCAGTATCCGGGCGATGAGATCGAGTCGCGCTCGGGGCGACAGGTGCTTGAATAGA 60
QY 253 GATTAATGACACAGCTGTGTCTCCAAAGCTGAGAAATGGGGGGCTTCCCTATGAGAAAG 312
DB 61 GATTAATGACACAGCTGTGTCTCCAAAGCTGAGAAATGGGGGGCTTCCCTATGAGAAAG 120
QY 313 TCTCATTTGAGGCGCATCGAAGAGCCAGTAATGAGAAACCTTAGAAAGATCAACAACAG 372
DB 121 TCTCATTTGAGGCGCATCGAAGAGCCAGTAATGAGAAACCTTAGAAAGATCAACAACAG 180
QY 373 CCGTCTCTCCCTGCGTATCTGTGACTGCAACAGATCTTGGGTTCTGCTGTCTGGG 432
DB 181 CCGTCTCTCCCTGCGTATCTGTGACTGCAACAGATCTTGGGTTCTGCTGTCTGGG 240
QY 433 GTCCAAACCTTGGTCCCTTGGTCTGCTGAGAGACTCCCGCTGCTTTCCCTACT 492
DB 241 GTCCAAACCTTGGTCCCTTGGTCTGCTGAGAGACTCCCGCTGCTTTCCCTACT 300
QY 493 TAGCTCTTAGCAAGAGACCTGAGCTCCACTTTGCTTTGGGT 538
DB 301 TAGCTCTTAGCAAGAGACCTGAGCTCCACTTTGCTTTGGGT 346

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Search completed: December 18, 2003, 20:48:59
Job time : 304 secs


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; EARLIER APPLICATION NUMBER: 60/049, 019
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048, 970
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048, 972
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048, 916
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/049, 373
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048, 875
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/049, 374
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048, 917
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048, 949
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048, 974
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048, 883
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048, 897
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048, 898
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048, 962
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048, 963
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048, 877
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048, 878
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/070, 923
; EARLIER FILING DATE: 1997-12-18
; EARLIER APPLICATION NUMBER: 60/092, 921
; EARLIER FILING DATE: 1998-07-15
; EARLIER APPLICATION NUMBER: 60/094, 657
; EARLIER FILING DATE: 1998-07-30
; NUMBER OF SEQ ID NOS: 1227
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 64
; LENGTH: 588
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (565)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (566)
; OTHER INFORMATION: n equals a,t,g, or c
; US-09-205-258-64

Query Match          9.8%; Score 82.4; DB 4; Length 588;
Best Local Similarity 91.6%; Pred. No. 1.5e-09;
Matches 87; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 751 CTAACAACCTAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 810
Db 493 CAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 552

QY 811 AAAAAAAAAAATNTGCGGGGGGGCCCCCCCCCCCC 845
Db 553 AAAAAAAAAAANNCGGGGGGGGGCCCCCCCCCCCC 587

RESULT 2
US-09-370-807-7
; Sequence 7; Application US/09370807
; Patent No. 6297034
```

```

; GENERAL INFORMATION:
; APPLICANT: Cahoon, Rebecca E.
; APPLICANT: Falco, S. Carl
; APPLICANT: Rafaleki, J. Antoni
; APPLICANT: Sakai, Hajime
; TITLE OF INVENTION: N-End Rule Pathway Enzymes
; FILE REFERENCE: BB-1199
; CURRENT APPLICATION NUMBER: US/09/370, 807
; EARLIER FILING DATE: 1999-08-09
; EARLIER APPLICATION NUMBER: 60/096, 225
; EARLIER FILING DATE: August 12, 1998
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 7
; LENGTH: 2407
; TYPE: DNA
; ORGANISM: Oryza sativa
; US-09-370-807-7

Query Match          8.7%; Score 73.4; DB 3; Length 2407;
Best Local Similarity 90.6%; Pred. No. 2.2e-07;
Matches 77; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 753 ACAAACTAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 812
Db 1977 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2036

QY 813 AAAAAAAAAAATNTGCGGGGGGGGGCCCC 837
Db 2037 AAAAAAAAAAATCTCGGGGGGGGGCCCC 2061

RESULT 3
US-09-921-259-7
; Sequence 7; Application US/09921259
; Patent No. 6465234
; GENERAL INFORMATION:
; APPLICANT: Cahoon, Rebecca E.
; APPLICANT: Falco, S. Carl
; APPLICANT: Rafaleki, J. Antoni
; APPLICANT: Sakai, Hajime
; TITLE OF INVENTION: N-End Rule Pathway Enzymes
; FILE REFERENCE: BB-1199
; CURRENT APPLICATION NUMBER: US/09/921, 259
; PRIOR FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: 60/096, 225
; PRIOR FILING DATE: August 12, 1998
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 7
; LENGTH: 2407
; TYPE: DNA
; ORGANISM: Oryza sativa
; US-09-921-259-7

Query Match          8.7%; Score 73.4; DB 4; Length 2407;
Best Local Similarity 90.6%; Pred. No. 2.2e-07;
Matches 77; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 753 ACAAACTAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 812
Db 1977 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2036

QY 813 AAAAAAAAAAATNTGCGGGGGGGGGCCCC 837
Db 2037 AAAAAAAAAAATCTCGGGGGGGGGCCCC 2061

RESULT 4
US-09-027-137-2
; Sequence 2; Application US/09027137
; Patent No. 6013450
; GENERAL INFORMATION:
```

APPLICANT: Hillman, Jennifer L.
APPLICANT: Corley, Neil C.
APPLICANT: Yue, Henry
TITLE OF INVENTION: CAF1-RELATED PROTEIN
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSER: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Dr.
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/027,137
FILING DATE: Filed Herewith
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0476 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2852 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: PROSNOT16
CLONE: 2229466
US-09-027-137-2

Query Match 8.6%; Score 72.6; DB 3; Length 2852;
Best Local Similarity 66.7%; Pred. No. 3.5e-07;
Matches 102; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 685 ATGCCACGATTTTATTTCTCCCTAACCCAGGCGCATGTGAGCTATTGGCAGTAA 744
DB 2447 ATACTATTATTTATTTTATTTTGTAAATAAAGATTCTTTTAACCACTGGCAAAAA 2506

QY 745 GTGGCGCTACAACTAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 804
DB 2507 AAAAAAAAAAAAAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2566

QY 805 AAAAAAAAAAAAAAAAAAATNTNGGGGGGGGGCC 837
DB 2567 AAAAAAAAAAAAAAAAAAAGGGGGGGGGCGCTC 2599

RESULT 5
US-09-344-441-2
Sequence 2, Application US/09344441
Patent No. 6376651
GENERAL INFORMATION:
APPLICANT: Hillman, Jennifer L.
Corley, Neil C.
Yue, Henry
TITLE OF INVENTION: CAF1-RELATED PROTEIN
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSER: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Dr.
CITY: Palo Alto

STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/344,441
FILING DATE: 20-Feb-1998
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/027,137
FILING DATE: 1998-02-20
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0476 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2852 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: PROSNOT16
CLONE: 2229466
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-344-441-2

Query Match 8.6%; Score 72.6; DB 4; Length 2852;
Best Local Similarity 66.7%; Pred. No. 3.5e-07;
Matches 102; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 685 ATGCCACGATTTTATTTCTCCCTAACCCAGGCGCATGTGAGCTATTGGCAGTAA 744
DB 2447 ATACTATTATTTATTTTATTTTGTAAATAAAGATTCTTTTAACCACTGGCAAAAA 2506

QY 745 GTGGCGCTACAACTAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 804
DB 2507 AAAAAAAAAAAAAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2566

QY 805 AAAAAAAAAAAAAAAAAAATNTNGGGGGGGGGCC 837
DB 2567 AAAAAAAAAAAAAAAAAAAGGGGGGGGGCGCTC 2599

RESULT 6
US-09-370-473-5
Sequence 5, Application US/09370473
Patent No. 6271031
GENERAL INFORMATION:
APPLICANT: Falco, S. Carl
APPLICANT: Ramodu, Layo O.
APPLICANT: Rafalski, J. Antoni
TITLE OF INVENTION: Quinolinate Metabolism Enzymes
FILE REFERENCE: BB-1209
CURRENT APPLICATION NUMBER: US/09/370,473
EARLIER FILING DATE: 1998-08-09
EARLIER APPLICATION NUMBER: 60/096,240
NUMBER OF SEQ ID NOS: 12
SOFTWARE: Microsoft Office 97
SEQ ID NO 5
LENGTH: 2065
TYPE: DNA
ORGANISM: Trilicium aestivum
US-09-370-473-5


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Oy 666 TGCCACAGATTTTATTTATTTATTCCTTACCCAGGGCAGATGTCAGCTATTGGCAGTAAAG 745
Db 1211 TGCTTCAGTGTGGAATATTAATTAGAACTCTGAGATTAAAAACCATTTATTTATT 127
Oy 746 TGGCGCTACCAACTATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 805
Db 1271 TATATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 133
Oy 806 AAAAAAAAAAAAAAAAAAATTNCGGGGGG 832
Db 1331 AAAAAAAAAAAAAAAAAAAGGGCGG 1357

RESULT 10
US-09-461-325-44
; Sequence 44, Application US/09461325A
; Patent No. 6475753
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: 94 Human Secreted Proteins
; FILE REFERENCE: P2029P1
; CURRENT APPLICATION NUMBER: US/09/461,325A
; CURRENT FILING DATE: 1999-12-14
; EARLIER APPLICATION NUMBER: PCT/US99/13418
; EARLIER FILING DATE: 1999-06-15
; EARLIER APPLICATION NUMBER: 60/089,507
; EARLIER FILING DATE: 1998-06-16
; EARLIER APPLICATION NUMBER: 60/089,508
; EARLIER FILING DATE: 1998-06-16
; EARLIER APPLICATION NUMBER: 60/089,509
; EARLIER FILING DATE: 1998-06-16
; EARLIER APPLICATION NUMBER: 60/089,510
; EARLIER FILING DATE: 1998-06-16
; EARLIER APPLICATION NUMBER: 60/090,112
; EARLIER FILING DATE: 1998-06-22
; EARLIER APPLICATION NUMBER: 60/090,113
; EARLIER FILING DATE: 1998-06-22
; NUMBER OF SEQ ID NOS: 532
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 44
; LENGTH: 569
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-461-325-44

Query Match 8.3%; Score 70.2; DB 4; Length 569;
Best Local Similarity 88.2%; Pred. No. 7,2e-07;
Matches 75; Conservative 0; Mismatches 10; Indels 0; Gaps 0

Oy 753 ACAAACTATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 812
Db 485 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 544
Oy 813 AAAAAAAAAAATTNCGGGGGGGGCC 837
Db 545 AAAAAAAAAAAAAAAAAAAGGGGGGCC 569

RESULT 11
US-09-404-879A-261/C
; Sequence 261, Application US/09404879A
; Patent No. 6468546
; GENERAL INFORMATION:
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: King, Gordon B.
; APPLICANT: Algate, Paul A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF OVARIAN CANCER
; FILE REFERENCE: 210121.462C2
; CURRENT APPLICATION NUMBER: US/09/404,879A
; CURRENT FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 393
; SOFTWARE: FascSeq for Windows Version 3.0

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; SEQ ID NO 261
; LENGTH: 94
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-404-879A-261

Query Match      8.3%; Score 70; DB 4; Length 94;
Beet Local Similarity 91.2%; Pred. No. 4.7e-07; Mismatches 7; Indels 0; Gaps 0
Matches 73; Conservative 0; Mismatches 7; Indels 0; Gaps 0

OY 762 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 821
Db 93 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 34

OY 822 TTTTGGGGGGGGCCCCCCCC 841
Db 33 AAAAGGGGGGACCTGCC 14

RESULT 12
US-09-338-933-261/c
; Sequence 261, Application US/09338933
; Patent No. 648931
; GENERAL INFORMATION:
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY OF
FILE REFERENCE: 210121.462C1
CURRENT APPLICATION NUMBER: US/09/338.933
CURRENT FILING DATE: 1999-06-23
NUMBER OF SEQ ID NOS: 312
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 261
LENGTH: 94
TYPE: DNA
ORGANISM: Homo sapien
US-09-338-933-261

Query Match      8.3%; Score 70; DB 4; Length 94;
Beet Local Similarity 91.2%; Pred. No. 4.7e-07; Mismatches 7; Indels 0; Gaps 0
Matches 73; Conservative 0; Mismatches 7; Indels 0; Gaps 0

OY 762 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 821
Db 93 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 34

OY 822 TTTTGGGGGGGGCCCCCCCC 841
Db 33 AAAAGGGGGGACCTGCC 14

RESULT 13
US-09-215-681-261/c
; Sequence 261, Application US/09215681A
; Patent No. 6528253
; GENERAL INFORMATION:
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Fridakis, Tony N.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSIS
FILE REFERENCE: 210121.463
CURRENT APPLICATION NUMBER: US/09/215.681A
CURRENT FILING DATE: 1998-12-17
NUMBER OF SEQ ID NOS: 310
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 261
LENGTH: 94
TYPE: DNA
ORGANISM: Homo sapien
US-09-215-681-261
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RESULT 15
US-09-152-060-15
: Sequence 15, Application US/09152060
: Patent No. 6448230
: GENERAL INFORMATION:
: APPLICANT: Rosen et al.
: TITLE OF INVENTION: 28 Human Secreted Proteins
: FILE REFERENCE: P2003PL.US
: CURRENT APPLICATION NUMBER: US/09/152.060

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Search completed: December 18, 2003, 22:37:42
Job time : 74 secs


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Db      61  GCGGGGAGAGCGTCCGAGGCCCCCTCCGAGAGGATGAGCGGGAGTGGGATCCG 120
Qy      121  CATGTGTGTGAGTACTGTGAACCTCTGGGCTTGAGGCGCACTACTGAGCTGGCCAG 180
Db      121  CATGTGTGTGAGTACTGTGAACCTCTGGGCTTGAGGCGCACTACTGAGCTGGCCAG 180
Qy      181  TGCTGTGAAGAGATGATCCGGGATCGAGATGAGTGGGCTCGGGGGCAGAGGTGC 240
Db      181  TGCTGTGAAGAGATGATCCGGGATCGAGATGAGTGGGCTCGGGGGCAGAGGTGC 240
Qy      241  CTTTGAATGAGATGATAATGAGACAGTGTGTCTTCCAGCTGAGAAATGGGGCTTTTC 300
Db      241  CTTTGAATGAGATGATAATGAGACAGTGTGTCTTCCAGCTGAGAAATGGGGCTTTTC 300
Qy      301  CTATGAGAAAGATGATCTTGAAGGCGATCCGAGAGCCAGTAAATGAGAAACCTAGAAA 360
Db      301  CTATGAGAAAGATGATCTTGAAGGCGATCCGAGAGCCAGTAAATGAGAAACCTAGAAA 360
Qy      361  GATCACAAGAGCGCTCTCCCTGCTCATCTGTGACTGACAGACTCTGGGTTCTTG 420
Db      361  GATCACAAGAGCGCTCTCCCTGCTCATCTGTGACTGACAGACTCTGGGTTCTTG 420
Qy      421  CTCTGTTCTGGGATCCAAACCTTGTCTCTCTTGTCTGTGGAGCTTCCCTGCT 480
Db      421  CTCTGTTCTGGGATCCAAACCTTGTCTCTCTTGTCTGTGGAGCTTCCCTGCT 480
Qy      481  CTTTCCCTTACTTACTGCTCTTGAAGAGAGACCTTGGCTTCCACTTTGGGTTAC 540
Db      481  CTTTCCCTTACTTACTGCTCTTGAAGAGAGACCTTGGCTTCCACTTTGGGTTAC 540
Qy      541  AAAGAAAGATGAGATGATCCGTGGCTTGAGGAGAGAGACACTCTCATGAGAA 600
Db      541  AAAGAAAGATGAGATGATCCGTGGCTTGAGGAGAGAGACACTCTCATGAGAA 600
Qy      601  CTTTCCAGGCACTCATACCTTCTCCAGGGTAAAGTGGCCAGAAAGCCCACTCACT 660
Db      601  CTTTCCAGGCACTCATACCTTCTCCAGGGTAAAGTGGCCAGAAAGCCCACTCACT 660
Qy      661  CTTTCCCTGCTTACTTACTGCTCTTGAAGAGAGACCTTGGCTTCCACTTTGGGTTAC 720
Db      661  CTTTCCCTGCTTACTTACTGCTCTTGAAGAGAGACCTTGGCTTCCACTTTGGGTTAC 720
Qy      721  GCATGTCACTATTTGGCAGTAAAGTGGCGCTTACAAACATAAATAAATAAATAAATAA 780
Db      721  GCATGTCACTATTTGGCAGTAAAGTGGCGCTTACAAACATAAATAAATAAATAAATAA 780
Qy      781  AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 840
Db      781  AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 840
Qy      841  CCCCC 845
Db      841  CCCCC 845

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RESULT 2

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US-10-177-293-479
; Sequence 479, Application US/10177293
; Publication No. US20030124128A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Glatc, Karen
; APPLICANT: Zhao, Xumei
; APPLICANT: Gannavarpu, Manjula
; APPLICANT: Kamatkar, Shubhangl
; APPLICANT: Mertens, Maureen
; APPLICANT: Myer, Vic
; APPLICANT: Wang, Youzhen
; APPLICANT: Xu, Yongyao
; APPLICANT: Hoersch, Sebastian
; APPLICANT: Monahan, John
; APPLICANT: Meyers, Rachel E.

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; APPLICANT: Bast Jr., Robert C.
; APPLICANT: Hortobagyi, Gabriel N.
; APPLICANT: Puzstai Lajos
; APPLICANT: Meric, Funda
; APPLICANT: Sahin, Aysegul
; APPLICANT: Miller, Gordon B.
; TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT,
; FILE REFERENCE: MRI-038
; CURRENT APPLICATION NUMBER: US/10/177,293
; CURRENT FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: US 60/299,887
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: US 60/301,572
; PRIOR FILING DATE: 2001-06-27
; PRIOR APPLICATION NUMBER: US 60/306,501
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: US 60/325,002
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US 60/362,585
; PRIOR FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 60/xxx,xxx
; PRIOR FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 506
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 479
; LENGTH: 1057
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-177-293-479

```

```

Query Match      89.7%; Score 758; DB 15; Length 1057;
Best Local Similarity 99.9%; Pred. No. 1,1e-159;
Matches 763; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

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Qy      10  TCAACCCGAGAGACGAGGCGCCGAGCGAGGCGCGGATGAGCGGGAGCGGGGCA 69
Db      289  TCAACCCGAGAGACGAGGCGCCGAGCGAGGCGCGGATGAGCGGGAGCGGGGCA 347
Qy      70  GAGTCGCTGAGGCGCCCTTCCGAGAGAGTGAAGCGGGGAGTGGGATCCGATGAT 129
Db      348  GAGTCGCTGAGGCGCCCTTCCGAGAGAGTGAAGCGGGGAGTGGGATCCGATGAT 407
Qy      130  GGAATCTGTAAGCCTCGGCGCTTGAAGGAGCACTTGAAGCTGAGCTGAGTGA 189
Db      408  GGAATCTGTAAGCCTCGGCGCTTGAAGGAGCACTTGAAGCTGAGCTGAGTGA 467
Qy      190  GAGAGATATCCGGGATGAGATGAGTGGCGCTTGGGGGCAAGGTGCTTTGAGAT 249
Db      468  GAGAGATATCCGGGATGAGATGAGTGGCGCTTGGGGGCAAGGTGCTTTGAGAT 527
Qy      250  AGAGATTAATGAGACAGTGTGTTCTCAAGCTGAGAAATGGGGGCTTCCATGAGAA 309
Db      528  AGAGATTAATGAGACAGTGTGTTCTCAAGCTGAGAAATGGGGGCTTCCATGAGAA 587
Qy      310  AGATCTCATTTAGAGCCATCCGAGAGCCAGTAAATGAGAAACCTTGAATACCAA 369
Db      588  AGATCTCATTTAGAGCCATCCGAGAGCCAGTAAATGAGAAACCTTGAATACCAA 647
Qy      370  CAGCGCTCTCTCGGTGATCTGTGACTGACAGAGACTTGGGTTCTGCTGTTCT 429
Db      648  CAGCGCTCTCTCGGTGATCTGTGACTGACAGAGACTTGGGTTCTGCTGTTCT 707
Qy      430  GGGGTCCAAACCTTGTGCTCCCTTGTGCTGCTGAGAGCTCCCGCTCTTCCCT 489
Db      708  GGGGTCCAAACCTTGTGCTCCCTTGTGCTGCTGAGAGCTCCCGCTCTTCCCT 767
Qy      490  ACTTAGCTCTTGAAGAGAGCCCTGAGCTTCACTTGGCTTGGTGAAGAGAG 549
Db      768  ACTTAGCTCTTGAAGAGAGCCCTGAGCTTCACTTGGCTTGGTGAAGAGAG 827
Qy      550  ATGAAAGATTCGTGAGCTTTGGGGGAGAGAGAGACCTTTCATGAACACTTTCAG 609

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Db	828	ATGAGAAGATCCGAGGCGCTTGGGAGGACAGAGAGACACTCTCATTGAAACACTTCTCCAG	887
Qy	610	CCACCTCATACCCCTCTCCCAAGGGTAAGTGCCACGAAAGCCCACTCTTGCCCTC	669
Db	888	CCACCTCATACCCCTCTCCCAAGGGTAAGTGCCACGAAAGCCCACTCTTGCCCTC	947
Qy	670	GCTAATACCTCTCGAATGCCACAGATTTTATTATTCTCCCTAACCCAGGGCAATGTCA	729
Db	948	GGTAAATACCTCTCTGATGCCACAGATTTTATTATTCTCCCTAACCCAGGGCAATGTCA	1007
Qy	730	GCTAATGCGAGTAAAGTGCGCTACCAACACTTAAATAAAAAAAAAAAAAAAAAAAA	779
Db	1008	GCTAATGCGAGTAAAGTGCGCTACCAACACTTAAATAAAAAAAAAAAAAAAAAAAA	1057

RESULT 3

```

US-09-824-787B-5
Sequence 5, Application US/09824787B
Patent No. US20020155447A1
GENERAL INFORMATION:
APPLICANT: Zauderer, Maurice
APPLICANT: Evans, Elizabeth E.
APPLICANT: Borrello, Melinda A.
TITLE OF INVENTION: A Gene Differentially Expressed in Breast and
File Reference: 1821.0040001
CURRENT APPLICATION NUMBER: US/09/824,787B
CURRENT FILING DATE: 2001-04-04
PRIOR APPLICATION NUMBER: 60/124,463
PRIOR FILING DATE: 2000-04-04
NUMBER OF SEQ ID NOS: 147
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 5
LENGTH: 683
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
LOCATION: (608)..(608)
OTHER INFORMATION: n is any nucleotide of a, t, g or c
US-09-824-787B-5

```

Query Match	80.3%;	Score 678.8;	DB 10;	Length 683;
Best Local Similarity	99.6%;	Pred. No. 4.7e-142;		
Matches 680;	Conservative 0;	Mismatches 3;	Indels 0;	Gaps 0

QY	59	GAGCCGGGGGACACGTCGCTACGGCCCTCCCGAGAGAGTCGAGCCGGGACAGTGGGCTC	118
Db	1	GACCCGGGGGACGTCGCTACGGCCCTCCCGAGAGAGTCGAGCCGGGACAGTGGGCTC	60
QY	119	CGCATCGTGGTGGAGTACTGTGAACCTTCGGGCTTCGAGGGACACTTCAGAGCTAC	178
Db	61	CGCATCGTGGTGGAGTACTGTGAACCTTCGGGCTTCGAGGGACACTTCAGAGCTAC	120
QY	179	AGTCTGTGAAGAGACGATTCGGGACATCGAGATCGAGTCGCGCTTCGGGGGACAGGT	238
Db	121	AGTCTGTGAAGAGAGCATATCCGGGACATCGAGATCGAGTCGCGCTTCGGGGGACAGGT	180
QY	239	GCCTTTGAAGTATGAGATTAATGGAACAGCTGGTCTTCGAAGCTGTGAGAAATGGGGCTTT	298
Db	181	GCCTTTGAAGTATGAGATTAATGGAACAGCTGGTCTTCGAAGCTGTGAGAAATGGGGCTTT	240
QY	299	CCCTATGAGAAAGATCTCATTTGAGGCCATCCGAAAGCCAGTAATGAGAGAAACCTTAGAA	358
Db	241	CCCTATGAGAAAGATCTCATTTGAGGCCATCCGAAAGCCAGTAATGAGAGAAACCTTAGAA	300
QY	359	AAGATCACCAACAGCGGCTCTCCCTGCGTCATCTGTGACTGCAACAGAACTCTGGGTTCC	418
Db	301	AAGATCACCAACAGCGGCTCTCCCTGCGTCATCTGTGACTGCAACAGAACTCTGGGTTCC	360
QY	419	TGCTCTGTTCTGGGGTCCAAACCTTGTGTCTCCTTTGGTCTCTGCTGGGAGTCTCCCTTGC	478
Db	361	TGCTCTGTTCTGGGGTCCAAACCTTGTGTCTCCTTTGGTCTCTGCTGGGAGTCTCCCTTGC	420

Qy	477	CTCTTTCCTCCCTTCTAGCTCCCTTTACCAAGAACCTGGCTCCACTTTGGCCCTTTGGGT	53.8
Db	421	CTCTGTCCTCTACTTAGCTCCCTTTACCAAGAACCTGGCTCCACTTTGGCCCTTTGGGT	48.0
Qy	539	ACAAAGAGAAATAGAGATTCCTGGCTCTTGGGGGCGAGAGAGACACTTCATGAA	59.8
Db	481	ACAAAGAGAAATAGAGATTCCTGGCTCTTGGGGGCGAGAGAGACACTTCATGAA	54.0
Qy	599	CATTTCTCAGACCTCATACCCCTTCCAGGGTAAGTCCCAAGAAAGCCAGTCCA	65.8
Db	541	CATTTCTCAGACCTCATACCCCTTCCAGGGTAAGTCCCAAGAAAGCCAGTCCA	60.0
Qy	659	CTCTTGCCCTGGGTATACCTGTCTGATGCCACAGATTTTATTTATTTCTCCCTAACCA	71.8
Db	601	CTCTTGCCCTGGGTATACCTGTCTGATGCCACAGATTTTATTTATTTCTCCCTAACCA	66.0
Qy	719	GGGCAATGTCAGTATTTGGCAGT	74.1
Db	661	GGGCAATGTCAGTATTTGGCAGT	68.3

RESULT 4

```

US-09-824-787B-19
Sequence 19, Application US/09824787B
Patent No. US20020155447A1
GENERAL INFORMATION:
APPLICANT: Zauderer, Maurice
APPLICANT: Evans, Elizabeth E.
APPLICANT: Borrello, Melinda A.
TITLE OF INVENTION: A Gene Differentially Expressed in Breast and
FILE REFERENCE: 1821.0040001
CURRENT APPLICATION NUMBER: US/09/824,787B
CURRENT FILING DATE: 2001-04-04
PRIOR APPLICATION NUMBER: 60/194,463
PRIOR FILING DATE: 2000-04-04
NUMBER OF SEQ ID NOS: 147
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 19
LENGTH: 584
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
LOCATION: (7)..(17)
OTHER INFORMATION: n is any nucleotide of a, t, g or c
US-09-824-787B-19

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Query Match	68.2%;	Score 576;	DB 10;	Length 584;
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Matches 576; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY	5	GGGGGAGCCGGGGGAGACGTCCTCGTAGCGCCCTCCCGAGAGAGTGAACCGGGCAGTG	113
Db	9	GGGGGAGCCGGGGGAGACGTCCTCGTAGCGCCCTCCCGAGAGAGTGAACCGGGCAGTG	68
QY	114	GGGTCCGACGCGTAGAGTACTGTGAACCTCGGCTTCGAGCGACCTTACTTGAGC	173
Db	69	GGGTCCGACGTCGTGTGAGTACTGTGAACCTCGGCTTCGAGCGACCTTACTTGAGC	128
QY	174	TGGCCAGTCTGTGAAGAGCAGTATCCGGGACATCGAGATCGATCCGGCTCGGGGGCA	223
Db	129	TGGCCAGTCTGTGAAGAGCAGTATCCGGGACATCGAGATCGATCCGGCTCGGGGGCA	188
QY	234	CAGGTCCCTTTGAGATAGATAAATGACAGCTGTGTCTTCCAACTGAGAAATGGGG	293
Db	189	CAGGTCCCTTTGAGATAGATAAATGACAGCTGTGTCTTCCAACTGAGAAATGGGG	248
QY	294	GCCTTCCCAATAGAAATCTCATTTAGAGGCATCCGAAAGCCAGTAATGAGAAATCC	353
Db	249	GCCTTCCCAATAGAAATCTCATTTAGAGGCATCCGAAAGCCAGTAATGAGAAATCC	308

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QY 354 TAGAAGATACCAACAGCGCTGCTCCCTGCGTCATCTGTGTGACAGAGACTCTGG 413
Db 309 TAGAAGATACCAACAGCGCTGCTCCCTGCGTCATCTGTGTGACAGAGACTCTGG 368
QY 414 GTTCCTGCTGTGTTCTGGGGTCCAAACCTTGTCTCCCTTTGTCTGCTGGAGCTCCC 473
Db 369 GTTCCTGCTGTGTTCTGGGGTCCAAACCTTGTCTCCCTTTGTCTGCTGGAGCTCCC 428
QY 474 CTTGCTCTTTCCCTCTACTTGTCTCTTGAAGAAAGAACCTTGGCTCCACTTTGCCCTT 533
Db 429 CTTGCTCTTTCCCTCTACTTGTCTCTTGAAGAAAGAACCTTGGCTCCACTTTGCCCTT 488
QY 534 TGGGTACAAAGAAAGATAGAAATTCCTGCTGGGGGCAAGAGAGACACTCTCC 593
Db 489 TGGGTACAAAGAAAGATAGAAATTCCTGCTGGGGGCAAGAGAGACACTCTCC 548
QY 594 ATGAACACTTCTCCAGCCACTCATACCCCTTCCC 629
Db 549 ATGAACACTTCTCCAGCCACTCATACCCCTTCCC 584

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RESULT 5
US-09-824-787B-33/c
; Sequence 33, Application US/09824787B
; Patent No. US20020155447A1
; GENERAL INFORMATION:
; APPLICANT: Zauderer, Maurice
; APPLICANT: Evans, Elizabeth E.
; APPLICANT: Borrello, Melinda A.
; TITLE OF INVENTION: A Gene Differentially Expressed in Breast and
; TITLE OF INVENTION: Bladder Cancer, and Encoded Polypeptides
; FILE REFERENCE: 1821.0040001
; CURRENT APPLICATION NUMBER: US/09/824,787B
; CURRENT FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: 60/194,463
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 33
; LENGTH: 532
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-824-787B-33

```

```

Query Match 63.0%; Score 532; DB 10; Length 532;
Best Local Similarity 100.0%; Pred. NO. 2.7e-109; Mismatches 0; Indels 0; Gaps 0;
Matches 532; Conservative 0;

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QY 233 ACAAGTCCCTTGAATAGATATAATGACAGCTGTGTTCTCCAGCTGAGATGG 292
Db 532 ACAAGTCCCTTGAATAGATATAATGACAGCTGTGTTCTCCAGCTGAGATGG 473
QY 293 GGGTTCCCTATGAGAAAGATCTCATTTGAGGCCATCCGAAAGCCAGTAATGAGAAACC 352
Db 472 GGGTTCCCTATGAGAAAGATCTCATTTGAGGCCATCCGAAAGCCAGTAATGAGAAACC 413
QY 353 CTAAAAAAGATCACAACAGCCGCTCCCTGCGTCATCTGTGACTGACAGAACTCTG 412
Db 412 CTAAAAAAGATCACAACAGCCGCTCCCTGCGTCATCTGTGACTGACAGAACTCTG 353
QY 413 GATTCTGCTGTGTTCTGGGGTCCAAACCTTGTCTCCCTTTGTCTGCTGGAGCTCC 472
Db 352 GATTCTGCTGTGTTCTGGGGTCCAAACCTTGTCTCCCTTTGTCTGCTGGAGCTCC 293
QY 473 CCTGCTCTTTCCCTCTACTTGTCTCTTGAAGAAAGAACCTTGGCTCCACTTTGCCCT 532
Db 292 CCTGCTCTTTCCCTCTACTTGTCTCTTGAAGAAAGAACCTTGGCTCCACTTTGCCCT 233
QY 533 TTGGGTACAAAGAAAGATTAAGATTCCTGCTGGGGCTTTGGGGGCAAGAGAGACACTCTC 592
Db 232 TTGGGTACAAAGAAAGATTAAGATTCCTGCTGGGGCTTTGGGGGCAAGAGAGACACTCTC 173
QY 593 CATGAACACTTCTCAGCCACTCATACCCCTTCCAGGGTAAGTCCCAAGAAAGCC 652

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Db 172 CATGAACACTTCTCAGCCACTCATACCCCTTCCAGGGTAAGTCCCAAGAAAGCC 113
QY 653 AGTCCACTCTTTGGCTCTGGTAATACCTGTGTGATGCAAGATTTATTTATTTCCCT 712
Db 112 AGTCCACTCTTTGGCTCTGGTAATACCTGTGTGATGCAAGATTTATTTATTTCCCT 53
QY 713 AACCCAGGGCAATGTGAGCTATTGGCAGTAAAGTGGCGCTACAAACACTAAA 764
Db 52 AACCCAGGGCAATGTGAGCTATTGGCAGTAAAGTGGCGCTACAAACACTAAA 1

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RESULT 6
US-09-824-787B-35/c
; Sequence 35, Application US/09824787B
; Patent No. US20020155447A1
; GENERAL INFORMATION:
; APPLICANT: Zauderer, Maurice
; APPLICANT: Evans, Elizabeth E.
; APPLICANT: Borrello, Melinda A.
; TITLE OF INVENTION: A Gene Differentially Expressed in Breast and
; TITLE OF INVENTION: Bladder Cancer, and Encoded Polypeptides
; FILE REFERENCE: 1821.0040001
; CURRENT APPLICATION NUMBER: US/09/824,787B
; CURRENT FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: 60/194,463
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 571
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (393)..(393)
; OTHER INFORMATION: n is any nucleotide of a, t, g or c
; NAME/KEY: misc_feature
; LOCATION: (482)..(482)
; OTHER INFORMATION: n is any nucleotide of a, t, g or c
; NAME/KEY: misc_feature
; LOCATION: (503)..(503)
; OTHER INFORMATION: n is any nucleotide of a, t, g or c
; NAME/KEY: misc_feature
; LOCATION: (520)..(520)
; OTHER INFORMATION: n is any nucleotide of a, t, g or c
US-09-824-787B-35

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Query Match 61.0%; Score 515.8; DB 10; Length 571;
Best Local Similarity 95.8%; Pred. NO. 1.1e-105;
Matches 549; Conservative 0; Mismatches 21; Indels 3; Gaps 2;

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QY 190 GAGCAGTATCCGGGATGAGATCGAGTGGCCCTCGGGGGCAAGTCCCTTGAAT 249
Db 571 GAGCAGTATCCGGGATGAGATCGAGTGGCCCTCGGGGGCAAGTCCCTTGAAT 512
QY 250 AGAGATTAATGACAGCTGGTGTCTCAAGCTGAGAAATGGGGGCTTTCCATGAGAA 309
Db 511 AGAGATTAATGACAGCTGGTGTCTCAAGCTGAGAAATGGGGGCTTTCCATGAGAA 454
QY 310 AGATCTATTGAGGCAATCGAAGAGCCAGTAATGAGAAACCTTGAAGAAATCAACAA 369
Db 453 AGATCTATTGAGGCAATCGAAGAGCCAGTAATGAGAAACCTTGAAGAAATCAACAA 394
QY 370 CAGCGCTCTCTGCTGCTCATCTGTGACTGACAGAGACTTGGGTTCTGCTGTCTT 429
Db 393 CAGCGCTCTCTGCTGCTCATCTGTGACTGACAGAGACTTGGGTTCTGCTGTCTT 334
QY 430 GGGGTCAAAACCTTGGTCTCCCTTTGGTCTGCTGGGAGCTCCCGCTCTTTCCCT 489
Db 333 GGGGTCAAAACCTTGGTCTCCCTTTGGTCTGCTGGGAGCTCCCGCTCTTTCCCT 274
QY 490 ACTTAGCTCTTAGCAAGAAAGACCTGGCTCCACTTTGGCTTTGGGTACAAAGAGAA 549

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Db 273 ACTTGGCTCTTAGCAAAAGACCCCTGCTCCACTTTCCTTTGGTAAAGAGGA 214
Qy 550 ATAGAGATTCCGTTGGCCCTTGGGGGAGAGAGACATCTTCATGAACTTTCTCCAG 609
Db 213 ATAGAGATTCCGTTGGCCCTTGGGGGAGAGAGACATCTTCATGAACTTTCTCCAG 154
Qy 610 CC-ACCTCATACCCCTTCCAGGGTAATGCCCCAGAAAGCCAGTCACTTTGCT 668
Db 153 CCACTCATACCCCTTCCAGGGTAATGCCCCAGAAAGCCAGTCACTTTGCT 94
Qy 669 CCGTAATACCTGTCTGATGCCACAGATTTTATTTATTTCCCTTAACCCAGGCAATGTC 728
Db 93 CCGTAATACCTGTCTGATGCCACAGATTTTATTTATTTCCCTTAACCCAGGCAATGTC 34
Qy 729 AGCTATGGCAGTAAGTGGCGCTACAAACACT 761
Db 33 AGCTATGGCAGTAAGTGGCGCTACAAACACT 1

RESULT 7

US-09-824-787B-37/C
; Sequence 37, Application US/09824787B
; Patent No. US20020155447A1
; GENERAL INFORMATION:
; APPLICANT: Zauderer, Maurice
; APPLICANT: Evans, Elizabeth E.
; APPLICANT: Borrello, Melinda A.
; TITLE OF INVENTION: A Gene Differentially Expressed in Breast and
; TITLE OF INVENTION: Bladder Cancer, and Encoded Polypeptides
; FILE REFERENCE: 1821.0040001
; CURRENT APPLICATION NUMBER: US/09/824,787B
; CURRENT FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: 60/194,463
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 37
; LENGTH: 528
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: n is any nucleotide of a, t, g or c
; NAME/KEY: misc_feature
; LOCATION: (297)..(299)
; OTHER INFORMATION: n is any nucleotide of a, t, g or c
; NAME/KEY: misc_feature
; LOCATION: (387)..(387)
; OTHER INFORMATION: n is any nucleotide of a, t, g or c
; NAME/KEY: misc_feature
; LOCATION: (520)..(520)
; OTHER INFORMATION: n is any nucleotide of a, t, g or c
US-09-824-787B-37

Query Match 60.1%; Score 507.8; DB 10; Length 528;

Best Local Similarity 98.9%; Pred. No. 6.8e-104; Mismatches 5; Indels 1; Gaps 1;

Matches 520; Conservative 0; Mismatches 5; Indels 1; Gaps 1;
Qy 242 TTTGAGATAGATTAATGACAGCTGGTGTCTCCAGCTGAGAAATGGGGGCTTTCCC 301
Db 527 TTTGAGAGAGATTAATGACAGCTGGTGTCTCCAGCTGAGAAATGGGGGCTTTCCC 468
Qy 302 TATGAGAAAGATCTCATTTGAGGCGCATCCGAAGAGCCAGTAATGAGAAACCTAGAAAG 361
Db 467 TATGAGAAAGATCTCATTTGAGGCGCATCCGAAGAGCCAGTAATGAGAAACCTAGAAAG 408
Qy 362 ATACCAACAGCCGCTCCCTGCTCATCTGTGATGACAC-AGAGCTTGGGTTCTG 420
Db 407 ATACCAACAGCCGCTCCCTGCTCATCTGTGATGACACAAAGAGCTTGGGTTCTG 348
Qy 421 CTCGTCTGGGGTCCAAACCTTGCTCCCTTGGTCTGCTGGAGCTCCCTCTGCT 480

Db 347 CTCGTCTGGGGTCCAAACCTTGCTCCCTTGGTCTGCTGGAGTCCCTCTGCT 288
Qy 481 CTTTCCCTACTTACTGCTCTTACGAAAGACCTTGCTTCACTTTGCTTTGGGTAC 540
Db 287 CTTTCCCTACTTACTGCTCTTACGAAAGACCTTGCTTCACTTTGCTTTGGGTAC 228
Qy 541 AAAGAGAAATAGAAAGATTCGTTGGGCTTGGGGGAGAGAGACCTTCATGAAACA 600
Db 227 AAAGAGAAATAGAAAGATTCGTTGGGCTTGGGGGAGAGAGACCTTCATGAAACA 168
Qy 601 CTTTCCAGCCACTCATACCCCTTCCAGGGTAATGCCCCAGAAAGCCAGTCACT 660
Db 167 CTTTCCAGCCACTCATACCCCTTCCAGGGTAATGCCCCAGAAAGCCAGTCACT 108
Qy 661 CTTGCTCCGCTTAATACCTGTCTGATGCCACAGATTTTATTTATTTCCCTTAACCCAGG 720
Db 107 CTTGCTCCGCTTAATACCTGTCTGATGCCACAGATTTTATTTATTTCCCTTAACCCAGG 48
Qy 721 GCAATGCTAGCTATTGGCAGTAAGTGGCGCTACAAACACTTAAAA 766
Db 47 GCAATGCTAGCTATTGGCAGTAAGTGGCGCTACAAACACTTAAAA 2

RESULT 8

US-09-824-787B-65/C
; Sequence 65, Application US/09824787B
; Patent No. US20020155447A1
; GENERAL INFORMATION:
; APPLICANT: Zauderer, Maurice
; APPLICANT: Evans, Elizabeth E.
; APPLICANT: Borrello, Melinda A.
; TITLE OF INVENTION: A Gene Differentially Expressed in Breast and
; TITLE OF INVENTION: Bladder Cancer, and Encoded Polypeptides
; FILE REFERENCE: 1821.0040001
; CURRENT APPLICATION NUMBER: US/09/824,787B
; CURRENT FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: 60/194,463
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 65
; LENGTH: 501
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-824-787B-65

Query Match 58.9%; Score 497.8; DB 10; Length 501;
Best Local Similarity 99.6%; Pred. No. 1.1e-101; Mismatches 2; Indels 0; Gaps 0;

Matches 499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 263 CAGCTGTGTCTTCCAGCTGAGAAATGGGGGCTTTCCCTATGAGAAATCTCATTTGAG 322
Db 501 CAGCTGTGTCTTCCAGCTGAGAAATGGGGGCTTTCCCTATGAGAAATCTCATTTGAG 442
Qy 323 GGCATCCGAAGAGCACTAATGAGAAACCTTGAAGAAATGACCAACCCGCTTCCC 382
Db 441 GGCATCCGAAGAGCACTAATGAGAAACCTTGAAGAAATGACCAACCCGCTTCCC 382
Qy 383 TGCCTCATCTGTGATGACACAGAGCTGTGGTTCTGCTCTGTGCTGGGGTCCAAACT 442
Db 381 TGCCTCATCTGTGATGACACAGAGCTGTGGTTCTGCTCTGTGCTGGGGTCCAAACT 322
Qy 443 TGTCTCCCTTTGGTCTGTCTGGAGCTCCCTGCTCTTTCCCTACTTAACTCTTA 502
Db 321 TGTCTCCCTTTGGTCTGTCTGGAGCTCCCTGCTCTTTCCCTACTTAACTCTTA 262
Qy 503 GCAAGAGACCTTGCCCTTCACTTTGGCTTGGGTGTAAGAAAGAAATGAAATTCCG 562
Db 261 GCAAGAGACCTTGCCCTTCACTTTGGCTTGGGTGTAAGAAAGAAATGAAATTCCG 202
Qy 563 TGGCTTTGGGGGAGAGAGACACTCTCATGAAACACTTCTCCAGCCACTCATACCC 622

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Db 201 TGGCCTTGGGGGAGAGAGACACTCTCATGACCTTCTCAGACCACTTATACC 142
Qy 623 CTTTCCAGGGTAGTCCCAAGCCAGTCACTTCTGCTGGTAATACCTGTC 682
Db 141 CTTTCCAGGGTAGTCCCAAGCCAGTCACTTCTGCTGGTAATACCTGTC 82
Qy 683 TGAATGACAGATTTTATTTATTTCTCCCTTAACCCAGGGCAATGTACATTTGGCAGTA 742
Db 81 TGAATGACAGATTTTATTTATTTATTTCTCCCTTAACCCAGGGCAATGTACATTTGGCAGTA 22
Qy 743 AAGTGGCGCTACAAACACTAA 763
Db 21 AAGTGGCGCTACAAACACTAA 1

RESULT 9
US-09-824-787B-3
; Sequence 3, Application US/09824787B
; Patent No. US20020155447A1
; GENERAL INFORMATION:
; APPLICANT: Zauderer, Maurice
; APPLICANT: Evans, Elizabeth E.
; APPLICANT: Borrello, Melinda A.
; TITLE OF INVENTION: A Gene Differentially Expressed in Breast and
; TITLE OF INVENTION: Bladder Cancer, and Encoded Polypeptides
; FILE REFERENCE: 1821.0040001
; CURRENT APPLICATION NUMBER: US/09/824,787B
; CURRENT FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: 60/194,463
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 518
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-824-787B-3

Query Match 56.6%; Score 478.2; DB 10; Length 518;
Best Local Similarity 98.6%; Pred. No. 2.8e-97;
Matches 503; Conservative 0; Mismatches 5; Indels 2; Gaps 2;

Qy 54 GCGGGAGACCGGGGAGAGAGTCCGTAAGCCCTCCCGAGAGAGTCCGCGGCAAGTG 113
Db 11 GAGGCTAGCCGGGAGAGAGTCCGTAAGCCCTCCCGAGAGAGTCCGCGGCAAGTG 70
Qy 114 GGGTCCGATCGTGTGAGTGTGAACCTTCGGCTTCGAGGCGAAGTCTGAGAC 173
Db 71 GGGTCCGATCGTGTGAGTGTGAACCTTCGGCTTCGAGGCGAAGTCTGAGAC 130
Qy 174 TGGCAGTGTGTAAGAGAGATCCGGGATCGAGTCCGAGTCCGCGGCAAGTG 233
Db 131 TGGCAGTGTGTAAGAGAGATCCGGGATCGAGTCCGAGTCCGCGGCAAGTG 190
Qy 234 CAGGTGCTTGTGATAGATAATGAGACAGTGTGTCTTCCAGAGTGTGAGATGGGG 293
Db 191 CAGGTG-CTTGTGATAGATAATGAGACAGTGTGTCTTCCAGAGTGTGAGATGGGG 249
Qy 294 GCTTTCCTATGAGAAAGATCTCATTTGAGGCCATCCGAGGCAAGTGTGAGAAACC 353
Db 250 GCTTTCCTATGAGAAAGATCTCATTTGAGGCCATCCGAGGCAAGTGTGAGAAACC 309
Qy 354 TAGAAAGATACCAACAGCGCTCTCCGAGTCTGTGAGTGTGAGAGAGTGTGAG 413
Db 310 TAGAAAGATACCAACAGCGCTCTCCGAGTCTGTGAGTGTGAGAGAGTGTGAG 369
Qy 414 GTTCTGCTCTGTCTGAGGATCAAAAGTGTGTCTTGTGAGTGTGAGAGTGTGAG 473
Db 370 GTTCTGCTCTGTCTGAGGATCAAAAGTGTGTCTTGTGAGTGTGAGAGTGTGAG 428
Qy 474 CTGCTCTCTTCCCTACTTACTGTCTTGAAGAAAGAGACCTTGGCTTCACTTTG 533
Db 429 CTGCTCTCTTCCCTACTTACTGTCTTGAAGAAAGAGACCTTGGCTTCACTTTG 488
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Qy 534 TGGGTACAAAGAGATAGAGATTCGGT 563
Db 489 TGGGTACAAAGAGATAGAGATTCGGT 518

RESULT 10
US-09-824-787B-20
; Sequence 20, Application US/09824787B
; Patent No. US20020155447A1
; GENERAL INFORMATION:
; APPLICANT: Zauderer, Maurice
; APPLICANT: Evans, Elizabeth E.
; APPLICANT: Borrello, Melinda A.
; TITLE OF INVENTION: A Gene Differentially Expressed in Breast and
; TITLE OF INVENTION: Bladder Cancer, and Encoded Polypeptides
; FILE REFERENCE: 1821.0040001
; CURRENT APPLICATION NUMBER: US/09/824,787B
; CURRENT FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: 60/194,463
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 488
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-824-787B-20

Query Match 56.2%; Score 474.8; DB 10; Length 488;
Best Local Similarity 99.6%; Pred. No. 1.6e-96;
Matches 476; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 35 GCGGACCGGCGCGGATGAGCGGGGAGCGGGGAGAGTCCGTAAGCCCTCCCGAG 94
Db 11 GCGGACCGGCGCGGATGAGCGGGGAGCGGGGAGAGTCCGTAAGCCCTCCCGAG 70
Qy 95 GAGGTGAGCGGGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 154
Db 71 GAGGTGAGCGGGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 130
Qy 155 GAGGCGACCTTCTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 214
Db 131 GAGGCGACCTTCTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 190
Qy 215 GATTCGCGCTCGGGGAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 274
Db 191 TACTCGCGCTCGGGGAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 250
Qy 275 TCCAGCTGAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 334
Db 251 TCCAGCTGAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 310
Qy 335 GCGAGTATGAGAAACCTTGAAGAAATGATCAACAGCCGCTCTCCGCTGATCTG 394
Db 311 GCGAGTATGAGAAACCTTGAAGAAATGATCAACAGCCGCTCTCCGCTGATCTG 370
Qy 395 TGAATGACAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 454
Db 371 TGAATGACAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 430
Qy 455 GGTCTGCTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 512
Db 431 GGTCTGCTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 488

RESULT 11
US-09-824-787B-67/c
; Sequence 67, Application US/09824787B
; Patent No. US20020155447A1
; GENERAL INFORMATION:
; APPLICANT: Zauderer, Maurice
; APPLICANT: Evans, Elizabeth E.
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; APPLICANT: Borrello, Melinda A.
 ; TITLE OF INVENTION: A Gene Differentially Expressed in Breast and
 ; TITLE OF INVENTION: Bladder Cancer, and Encoded Polypeptides
 ; FILE REFERENCE: 1821.0040001
 ; CURRENT APPLICATION NUMBER: US/09/824,787B
 ; PRIOR FILING DATE: 2001-04-04
 ; PRIOR APPLICATION NUMBER: 60/194,463
 ; NUMBER OF SEQ ID NOS: 147
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO: 67
 ; LENGTH: 474
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-824-787B-67

Query Match 55.7%; Score 470.8; DB 10; Length 474;
 Best Local Similarity 99.6%; Pred. No. 1.2e-95;
 Matches 472; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 236 TTTCCTATGAGAAAGATCTCATTTGAGCCATCCGAGGCGCAGTAATGAGAAACCTTA 355
 DB 474 TTTCCTATGAGAAAGATCTCATTTGAGCCATCCGAGGCGCAGTAATGAGAAACCTTA 415
 QY 356 GAAAAGATCACCAAGAGCCGCTCCCTGCTCATCTGTGACTGACAGACACTCTGAGT 415
 DB 414 GAAAAGATCACCAAGAGCCGCTCCCTGCTCATCTGTGACTGACAGACACTCTGAGT 355
 QY 416 TCTCTCTCTGTTCTGGGGGTCGAAACCTTGTCTCCCTTTGTTGCTGCTGGAGCTCCGC 475
 DB 354 TCTCTCTCTGTTCTGGGGGTCGAAACCTTGTCTCCCTTTGTTGCTGCTGGAGCTCCGC 295
 QY 476 TGCCTCTTCCCTCTAGCTCTTAGCAAGAGACCCCTGGCCCTCACTTGGCCCTTG 535
 DB 294 TGCCTCTTCCCTCTAGCTCTTAGCAAGAGACCCCTGGCCCTCACTTGGCCCTTG 235
 QY 536 GGTACAAAGAAAGATAGAGATTCGTTGCTGGGCTGAGAGAGAGACACTCTGCAT 595
 DB 234 GGTACAAAGAAAGATAGAGATTCGTTGCTGGGCTGAGAGAGAGACACTCTGCAT 175
 QY 596 GAAACCTTCTCAGCCACTCTATACCCCTTCCAGGGGTAAGTGGCCACGAAAGCCAGT 655
 DB 174 GAAACCTTCTCAGCCACTCTATACCCCTTCCAGGGGTAAGTGGCCACGAAAGCCAGT 115
 QY 656 CCACCTTCGCTCGGTAAATACCTGTCGATGCGCAGATTTATTTATTCCTCCCTAAC 715
 DB 114 CCACCTTCGCTCGGTAAATACCTGTCGATGCGCAGATTTATTTATTCCTCCCTAAC 55
 QY 716 CCAGGCAATGTCAGCTATTGGCAGTAAGTGCGCTCAAAACACTAAAAAAA 769
 DB 54 CCAGGCAATGTCAGCTATTGGCAGTAAGTGCGCTCAAAACACTAAAAAAA 1

RESULT 12
 US-09-824-787B-68/c
 ; Sequence 68, Application US/09824787B
 ; Patent No. US20020155447A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Zauderer, Maurice
 ; APPLICANT: Evans, Elizabeth E.
 ; APPLICANT: Borrello, Melinda A.
 ; TITLE OF INVENTION: A Gene Differentially Expressed in Breast and
 ; TITLE OF INVENTION: Bladder Cancer, and Encoded Polypeptides
 ; FILE REFERENCE: 1821.0040001
 ; CURRENT APPLICATION NUMBER: US/09/824,787B
 ; PRIOR FILING DATE: 2001-04-04
 ; PRIOR APPLICATION NUMBER: 60/194,463
 ; NUMBER OF SEQ ID NOS: 147
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO: 68
 ; LENGTH: 483
 ; TYPE: DNA

; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: (248)..(248)
 ; OTHER INFORMATION: n is any nucleotide of a, t, g or c
 ; US-09-824-787B-68

Query Match 54.8%; Score 462.8; DB 10; Length 483;
 Best Local Similarity 97.3%; Pred. No. 7.5e-94;
 Matches 470; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 279 AGCTGAGAAATGGGGCTTTTCCCTATGAGAAAGATCTCATTTGAGCCATCCGAGAGCCA 338
 DB 483 AGCTGAGAAATGGGGCTTTTCCCTATGAGAAAGATCTCATTTGAGCCATCCGAGAGCCA 424
 QY 339 GTAATGAGAAACCTTAGAAAAAGATACCAACAGCCGCTCTCCCTGCTCATCTGTGAC 398
 DB 423 GTAATGAGAAACCTTAGAAAAAGATACCAACAGCCGCTCTCCCTGCTCATCTGTGAC 364
 QY 399 TGACAGAGACTGTGGGCTCTGCTCTGTTCTGGGGGTCGAAACCTTGTCTCCCTTTGGTC 458
 DB 363 TGACAGAGACTGTGGGCTCTGCTCTGTTCTGGGGGTCGAAACCTTGTCTCCCTTTGGTC 304
 QY 459 CTGCTGGAGCTCCCTGCTCTCTTCCCTACTTACCTTACGCAAGAGACCTGAC 518
 DB 303 TTGCTGGAGCTCCCTGCTCTCTTCCCTACTTACCTTACGCAAGAGACCTGAC 244
 QY 519 CTCACCTTGGCTTTGGGCTACAAAGAAATGAGATTCGTTGCTGGGGGTCAGG 578
 DB 243 CTCACCTTGGCTTTGGGCTACAAAGAAATGAGATTCGTTGCTGGGGGTCAGG 184
 QY 579 AGAGAGACACTCTCATGAAACACTTCTCAGCCACTGATACCCCTTCCAGGGTAACT 638
 DB 183 AGAGAGACACTCTCATGAAACACTTCTCAGCCACTGATACCCCTTCCAGGGTAACT 124
 QY 639 GCCACGAAAGCCAGTCTCTTGGCTGTTGATATCTGTCGATGACCAAGATTTT 698
 DB 123 GCCACGAAAGCCAGTCTCTTGGCTGTTGATATCTGTCGATGACCAAGATTTT 64
 QY 699 ATTATTTCTCCCTTACCCAGGCAATGTACGCTATTGGCAGTAAGTGCGCTTACAAAC 758
 DB 63 ATTATTTCTCCCTTACCCAGGCAATGTACGCTATTGGCAGTAAGTGCGCTTACAAAC 4
 QY 759 ACT 761
 DB 3 ACT 1

RESULT 13
 US-09-824-787B-70/c
 ; Sequence 70, Application US/09824787B
 ; Patent No. US20020155447A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Zauderer, Maurice
 ; APPLICANT: Evans, Elizabeth E.
 ; APPLICANT: Borrello, Melinda A.
 ; TITLE OF INVENTION: A Gene Differentially Expressed in Breast and
 ; TITLE OF INVENTION: Bladder Cancer, and Encoded Polypeptides
 ; FILE REFERENCE: 1821.0040001
 ; CURRENT APPLICATION NUMBER: US/09/824,787B
 ; PRIOR FILING DATE: 2001-04-04
 ; PRIOR APPLICATION NUMBER: 60/194,463
 ; NUMBER OF SEQ ID NOS: 147
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO: 70
 ; LENGTH: 594
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: (385)..(385)
 ; OTHER INFORMATION: n is any nucleotide of a, t, g or c

US-09-824-787B-70

Query Match 53.4%; Score 451; DB 10; Length 594;
 Best Local Similarity 94.0%; Pred. No. 3.5e-91;
 Matches 54; Conservative 0; Mismatches 26; Indels 9; Gaps 7;

QY 183 CTGTGAAGAGCAGTATCCGGGATCGAGATCGATCGGCGCTCGGGGCGACAGTGCCT 242
 DB 571 CTGTGAAGAGCAGTATCGGGGCG-TCGAGATGAAT--CGCTCGGGGGCGACAGGGTCC 515
 QY 243 TTGAGATAGAGATTAATGAGACAGCTGTGTCTTCCAAAGCTGGAATATGGGGGCTTTCCCT 302
 DB 514 TTGAGATAGAGATTAATGAGACAGCTGTGTCTTCCAAAGCTGGAATATGGGGGCTTTCCCT 457
 QY 303 ATGAGAAAGATCTATTGAGGCGCATCCGAGAGCCAGTAAATGAGAAACCTTAGAAAAGA 362
 DB 456 ATGAGAAAGATCTATTGAGGCGCATCCGAGAGCCAGTAAATGAGAAACCTTAGAAAAGA 398
 QY 363 TCACCAACAGCCGCTCTCCCTGCGTCACTCTGTGACAGAGACTCTGGGTTCTGCT 422
 DB 397 TCACCAACAGCC-NGCTCCCTGCGTCACTCTGTGACAGAGACTCTGGGTTCTGCT 340
 QY 423 CTGTTCGGGGTCCAAACCTTGTCTCTCTTGTCTGTCTGAGAGCTCCCTGCTCT 482
 DB 339 CTGTTCGGGGTCCAAACCTTGTGT-TCCTTTGTCTGTCTGAGAGCTCCCTGCTCTCT 281
 QY 483 TTCCCTACTTACTCTTGTGCAAGAGACCTGGGCTCCACTTTGGCTTTGGGTCAA 542
 DB 280 TTCCCTACTTACTCTTGTGCAAGAGACCTGGGCTCCACTTTGGCTTTGGGTCAA 221
 QY 543 AGAAGAAATGAAAGATTCGGTGGCTTGGGGGCGAGAGAGACACTCTCCATGAAACT 602
 DB 220 AGAAGAAATGAAAGATTCGGTGGCTTGGGGGCGAGAGAGACACTCTCCATGAAACT 161
 QY 603 TCTCCAGCCACTATATACCCCTTCCAGGGTAAGTGCCCGAAGAGCCAGTCACTCT 662
 DB 160 TCTCCAGCCACTATATACCCCTTCCAGGGTAAGTGCCCGAAGAGCCAGTCACTCT 101
 QY 663 TCGGCTCGGTAATACCTGTGTGATGCCACAGATTTTATTTTCTCCCTTAACCCAGGGC 722
 DB 100 TCGGCTCGGTAATACCTGTGTGATGCCACAGATTTTATTTTCTCCCTTAACCCAGGGC 41
 QY 723 AATGTCACTATTGGCAGTAAGTGCGCTAACAAACTA 762
 DB 40 AATGTCACTATTGGCAGTAAGTGCGCTAACAAACTA 1

RESULT 14
 US-09-824-787B-46/c
 ; Sequence 46, Application US/09824787B
 ; Patent No. US20020155447A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Zauderer, Maurice
 ; APPLICANT: Evans, Elizabeth E.
 ; APPLICANT: Borrello, Melinda A.
 ; TITLE OF INVENTION: A Gene Differentially Expressed in Breast and
 ; FILE REFERENCE: 1821.0040001
 ; CURRENT APPLICATION NUMBER: US/09/824,787B
 ; PRIOR FILING DATE: 2001-04-04
 ; PRIOR FILING DATE: 2000-04-04
 ; NUMBER OF SEQ ID NOS: 147
 ; SOFTWARE: Patentin Ver. 2.1
 ; SEQ ID NO 46
 ; LENGTH: 456
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-824-787B-46

Query Match 53.0%; Score 448; DB 10; Length 456;
 Best Local Similarity 100.0%; Pred. No. 1.5e-90;
 Matches 448; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 GCCATCGAAGAGCCAGTAATGAGAAACCTTAGAAAAGATCACCAACAGCCCTCTCC 382
 DB 448 GCCATCGAAGAGCCAGTAATGAGAAACCTTAGAAAAGATCACCAACAGCCCTCTCC 389
 QY 383 TGGGTCACTCTGTGACTGCACAGAGACTCTGGGTTCTGCTCTGTCTTGGGGTCCAAACT 442
 DB 388 TGGGTCACTCTGTGACTGCACAGAGACTCTGGGTTCTGCTCTGTCTTGGGGTCCAAACT 329
 QY 443 TGGTCTCCCTTGGTGTCTGTGAGAGTCCCTGCTCTTTCCTTCCCTACTAGCTCTTA 502
 DB 328 TGGTCTCCCTTGGTGTCTGTGAGAGTCCCTGCTCTTTCCTTCCCTACTAGCTCTTA 269
 QY 503 GCAAGAGACCTTGGCTCCACTTTGCTTGGGTACAAAGAAATGAAAGATTCCG 562
 DB 268 GCAAGAGACCTTGGCTCCACTTTGCTTGGGTACAAAGAAATGAAAGATTCCG 209
 QY 563 TGGCTTTGGGGGCGAGAGAGACACTCTCATGAAACCTTCTCCAGCCACTCATACC 622
 DB 208 TGGCTTTGGGGGCGAGAGAGACACTCTCATGAAACCTTCTCCAGCCACTCATACC 149
 QY 623 CTTTCCAGGGTAAGTGGCCAGAAAGCCAGTCACTCTTGGCTCGGTAATACCTGTC 682
 DB 148 CTTTCCAGGGTAAGTGGCCAGAAAGCCAGTCACTCTTGGCTCGGTAATACCTGTC 89
 QY 683 TGATGCCACAGATTTTATTTATTTCTCCCTTAACCCAGGGGAGATGAGTATTGGCAGTA 742
 DB 88 TGATGCCACAGATTTTATTTATTTCTCCCTTAACCCAGGGGAGATGAGTATTGGCAGTA 29
 QY 743 AAGTGGCGCTACAAACCTTAAAAAAA 770
 DB 28 AAGTGGCGCTACAAACCTTAAAAAAA 1

RESULT 15
 US-09-824-787B-69/c
 ; Sequence 69, Application US/09824787B
 ; Patent No. US20020155447A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Zauderer, Maurice
 ; APPLICANT: Evans, Elizabeth E.
 ; APPLICANT: Borrello, Melinda A.
 ; TITLE OF INVENTION: A Gene Differentially Expressed in Breast and
 ; FILE REFERENCE: 1821.0040001
 ; CURRENT APPLICATION NUMBER: US/09/824,787B
 ; PRIOR FILING DATE: 2001-04-04
 ; PRIOR FILING DATE: 2000-04-04
 ; NUMBER OF SEQ ID NOS: 147
 ; SOFTWARE: Patentin Ver. 2.1
 ; SEQ ID NO 69
 ; LENGTH: 449
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-824-787B-69

Query Match 52.8%; Score 445.8; DB 10; Length 449;
 Best Local Similarity 99.6%; Pred. No. 4.6e-90;
 Matches 447; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 317 ATTGAGGCATCCGAAGAGCCAGTAATGAGAAACCTTAGAAAAGATCACCAACAGCCGT 376
 DB 449 ATTGAGGCATCCGAAGAGCCAGTAATGAGAAACCTTAGAAAAGATCACCAACAGCCGT 350
 QY 377 CTTCCCTGCGTCACTCTGTGACTGCACAGAGCTCTGGGTTCTGCTCTGTCTTGGGGTCC 436
 DB 389 CTTCCCTGCGTCACTCTGTGACTGCACAGAGCTCTGGGTTCTGCTCTGTCTTGGGGTCC 330
 QY 437 AAACCTTGTCTCTCTTGTCTCTGCTGGAGAGTCCCTGCTCTTTCCTTCCCTACTTAGC 496
 DB 329 AAACCTTGTCTCTCTTGTCTCTGCTGGAGAGTCCCTGCTCTTTCCTTCCCTACTTAGC 270

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Qy 497 TCCTTAGCAAGAGACCTTGCCCTCCACTTTGGCCCTTTGGGTACAAAGAGGAATAGAAG 556
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Db 269 TCCTTAGCAAGAGACCTTGCCCTCCACTTTGGCCCTTTGGGTACAAAGGAATAGAAG 210
    |||||
Qy 557 ATTCGGTGCCCTTTGGGGGAGAGAGACACTTCCATGAACACTTTCAGCCACTC 616
    |||||
Db 209 ATTCGGTGCCCTTTGGGGGAGAGAGACACTTCCATGAACACTTTCAGCCACTC 150
    |||||
Qy 617 ATACCCCTTCCAGGGTAAGTGCCCAAGAAAGCCAGTCACTTGGCCCTGGTAATA 676
    |||||
Db 149 ATACCCCTTCCAGGGTAAGTGCCCAAGAAAGCCAGTCACTTGGCCCTGGTAATA 90
    |||||
Qy 677 CCTGTGATGACAGATTTTATTCTCCCTAACCCAGGCAATGTCAGCTATTG 736
    |||||
Db 89 CCTGTGATGACAGATTTTATTCTCCCTAACCCAGGCAATGTCAGCTATTG 30
    |||||
Qy 737 GCAGTAAAGTGGCGCTACAAACACTTAAA 765
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Db 29 GCAGTAAAGTGGCGCTACAAACACTTAAA 1
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Search completed: December 18, 2003, 22:36:18
 Job time : 335 secs

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FEATURES
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    /db_xref="taxon:9606"
    /clone="IMAGE:5172146"
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    /lab_host="DH10B"
    /clone_lib="NIH_MGC_119"
    /note="Organ: brain; Vector: pCMV-Sport6; Site 1: NotI;
    Site 2: EcoRV (destroyed); RNA source normal medulla from
    anonymous male age 27. Library is oligo-dT primed and
    directionally cloned (EcoRV site is destroyed upon
    cloning). Average insert size 1.3 kb, insert size range
    0.9-3 kb. Library is normalized and enriched for
    full-length clones and was constructed by C. Gruber
    (Invitrogen). Research Genetics tracking code 013. Note:
    this is a NIH_MGC Library."

BASE COUNT      196 a      232 c      234 g      163 t
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Query Match      86.0%; Score 727; DB 12; Length 825;
Best Local Similarity 98.8%; Pred. No. 2.6e-59;
Matches 764; Conservative 0; Mismatches 5; Indels 4; Gaps 3;

QY 11 CACACCCGGAAGCAGGGGCGCGAGCGGCGCGATGACGGGAGCCCGGCGAG 70
Db 1 CACACCCGGAAGCAGGGGCGCGAGCGGCGCGATGACGGGAGCCCGGCGAG 58
QY 71 ACCTCCGTAAGCCCTCCCGAGAGGTGAGCCCGGAGGTGCGATGCTGTG 130
Db 59 ACCTCCGTAAGCCCTCCCGAGAGGTGAGCCCGGAGGTGCGATGCTGTG 118
QY 131 GAGTACGTGAACCTCGCGCTTGAGAGCGACCTACCTGAGCTGGCGAGCTGTAAG 190
Db 119 GAGTACGTGAACCTCGCGCTTGAGAGCGACCTACCTGAGCTGGCGAGCTGTAAG 178
QY 191 GAGCAGTATCCGGGCGATCGAGATCGAGTCCGCGCGGCGACAGGTGCTTTGAGATA 250
Db 179 GAGCAGTATCCGGGCGATCGAGATCGAGTCCGCGCGGCGACAGGTGCTTTGAGATA 238
QY 251 GAGATTAATGAGACAGTGTGTCTTCCAGCTGAGAAATGGGGCTTCCCTATGAGAAA 310
Db 239 GAGATTAATGAGACAGTGTGTCTTCCAGCTGAGAAATGGGGCTTCCCTATGAGAAA 298
QY 311 GATCTCTTGAAGGCGATCCGAGAGCAATGAGAAACCTAGAAAGATCAACCAAC 370
Db 299 GATCTCTTGAAGGCGATCCGAGAGCAATGAGAAACCTAGAAAGATCAACCAAC 358
QY 371 AGCGGTCTCCCTGCTGATCTGTGACTGACAGAGACTGGGTTCTGCTGTCTG 430
Db 359 AGCGGTCTCCCTGCTGATCTGTGACTGACAGAGACTGGGTTCTGCTGTCTG 418
QY 431 GGGGTCAAACCTTGTCTCTTGTGTCTGTGAGAGTCCCTGCTCTTCCCTTA 490
Db 419 GGGGTCAAACCTTGTCTCTTGTGTCTGTGAGAGTCCCTGCTCTTCCCTTA 478
QY 491 CTTAGCTCTTGAAGAGAGAGCCCTGCGCTCCACTTTGGGTGACAAAGAGAA 550
Db 479 CTTAGCTCTTGAAGAGAGAGCCCTGCGCTCCACTTTGGGTGACAAAGAGAA 538
QY 551 TAGAAGATTCGTTGGGCGGAGAGAGAGACACTTCATGAAACATTCTCCAGC 610
Db 539 TAGAAGATTCGTTGGGCGGAGAGAGAGACACTTCATGAAACATTCTCCAGC 598
QY 611 CACCTCAATCCCTCTCCAGAGGTGAAGTCCACAGAAAGCCAGTCACTTTCGCTCG 670
Db 599 CACCTCAATCCCTCTCCAGAGGTGAAGTCCACAGAAAGCCAGTCACTTTCGCTCG 658
QY 671 GTATTACTGTCT-GATGCGCAGATTTATTTATCTCCCTTAACCAAGGCGAATGCA 729
Db 659 GTATTACTGTCTGATGCGCAGATTTATTTATCTCCCTTAACCAAGGCGAATGCA 718

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QY 730 GCTATTGGCAGT-AAAGTGGCGCTACAAACACTTAAAAA 781
Db 719 GCTATTGGCAGTAAAGTGGCGCTACAAACAAAAA 771

RESULT 2
LOCUS      BQ960409
DEFINITION BQ960409 729 bp mRNA linear EST 21-AUG-2002
            AGENCOURT 8945963 NIH_MGC_101 Homo sapiens cDNA clone IMAGE:6462483
            5', mRNA sequence.
ACCESSION  BQ960409
VERSION    BQ960409.1 GI:22375887
KEYWORDS   EST.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 729)
            NIH-MGC http://mgc.nci.nih.gov/.
            National Institutes of Health, Mammalian Gene Collection (MGC)
            Unpublished
            Contact: Robert Strausberg, Ph.D.
            Email: cgabs-remail.nih.gov
            Tissue Procurement: ATCC
            CDNA Library Preparation: Rubin Laboratory
            CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LNL at:
            http://image.lnl.gov
            Plate: LNCM2652 row: h column: 04
            High quality sequence stop: 626.
FEATURES
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    1..729
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    /mol_type="mRNA"
    /db_xref="taxon:9606"
    /clone="IMAGE:6462483"
    /issue_type="epidermoid carcinoma, cell line"
    /lab_host="DH10B (phage-resistant)"
    /clone_lib="NIH_MGC_101"
    /note="Organ: lung; Vector: pOTB1; Site 1: EcoRI; Site 2:
    XhoI; CDNA made by oligo-dT priming. Directionally cloned
    into EcoRI/XhoI sites using the following 5' adaptor:
    GGCACGAG(G). Library constructed by Ling Hong in the
    laboratory of Gerald M. Rubin (University of California,
    Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
    Superscript II RT (Life Technologies). Note: this is a
    NIH_MGC Library."

BASE COUNT      168 a      208 c      196 g      155 t      2 others
ORIGIN
Query Match      85.7%; Score 723.8; DB 13; Length 729;
Best Local Similarity 99.5%; Pred. No. 5.6e-59;
Matches 725; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 48 CGATGACGGGAGCGGCGGAGAGCTCCGCTGAGAGAGTGAAGCGG 107
Db 1 CGATGACGGGAGCGGCGGAGAGCTCCGCTGAGAGAGTGAAGCGG 60
QY 108 GCAATGGGAGTCCGATCGTGTGAGTACTGTGAACCTTGCGGCTTGAAGCGACTTACC 167
Db 61 GCAATGGGAGTCCGATCGTGTGAGTACTGTGAACCTTGCGGCTTGAAGCGACTTACC 120
QY 168 TGAAGCTGGGCAATGCTGTGAAGAGAGCAATTCGGGCAATCGAGATCGGCTCG 227
Db 121 TGAAGCTGGGCAATGCTGTGAAGAGAGCAATTCGGGCAATCGAGATCGGCTCG 180
QY 228 GGGGCAAGGTGCTTTGAGATGAGTAAATGAGCAGGTGCTTCTCAAGCTGAGA 287
Db 181 GGGGCAAGGTGCTTTGAGATGAGTAAATGAGCAGGTGCTTCTCAAGCTGAGA 240
QY 288 ATGGGGCTTTCCCTATGAGAAAGATCTCATTTAGAGCATCCGAGAGCCAGTAATGAG 347

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Db      241 ATGGGGGGCTTCCCTATGAGAAAGATCTATTGAGGCCATCCGAGAGACAGCTAAATGAG 300
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Qy      348 AAACCTGAAAAAGATACCAACAGCCGCTCCCGGCTCATCCGTGACTGACAGAGA 407
        |||
Db      301 AAACCTGAAAAAGATACCAACAGCCGCTCCCGGCTCATCCGTGACTGACAGAGA 360
        |||
Qy      408 CTCTGGGTCTGCTCTGTTCTGGGGTCCAAACCTTGATCTCCCTTTGGTCTGCTGGA 467
        |||
Db      361 CTCTGGGTCTGCTCTGTTCTGGGGTCCAAACCTTGATCTCCCTTTGGTCTGCTGGA 420
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Qy      468 GCTCCCTGCTGCTCTTCCCTCTTACCTTACCTTACCAAGACCTGCTTCACTT 527
        |||
Db      421 GCTCCCTGCTGCTCTTCCCTCTTACCTTACCTTACCAAGACCTGCTTCACTT 480
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Qy      528 GCTCCCTGCTGCTCTTCCCTCTTACCTTACCTTACCAAGACCTGCTTCACTT 587
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Db      481 GCTCCCTGCTGCTCTTCCCTCTTACCTTACCTTACCAAGACCTGCTTCACTT 540
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Qy      588 CTCTCATGAAACACTTCTCCAGCCACCTCATACCCCTCCAGGGTAAGTCCACGAA 647
        |||
Db      541 CTCTCATGAAACACTTCTCCAGCCACCTCATACCCCTCCAGGGTAAGTCCACGAA 600
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Qy      648 AGCCAGTCCACTCTTCCGCTCGGTAAATCTGTCTGATGCCACAGATTTATTTCT 707
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Qy      708 CCCCAACCCAGGGAATCTGAGTATGAGGAGTAAAGTGGCTTCAAACTAAATA 767
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Db      661 CCCCAACCCAGGGAATCTGAGTATGAGGAGTAAAGTGGCTTCAAACTAAATA 720
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Qy      768 AAAAAAAAAA 776
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Db      721 AAAAAAAAAA 729
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RESULT 3
LOCUS      Bg705876              799 bp      mRNA      linear      EST 07-MAY-2001
DEFINITION 602669368F1 NIH_MGC_96 Homo sapiens CDNA clone IMAGE:4792000 5',
ACCESSION  Bg705876
VERSION     Bg705876.1 GI:13980659
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 799)
NIH-MGC http://mgi.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished
Contact: Robert Strausberg, Ph.D.
Email: cgsbbs-remail.nih.gov
Tissue Procurement: Miklos Palokovits, M.D., Ph.D.
cDNA Library Preparation: Michael J. Brownstein (NHGRI), Shizaki
Toshiyuki and Piero Carninci (RIKEN)
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/ILNI at:
http://image.llnl.gov
Plate: ILMI0669 row: h column: 17
High quality sequence stop: 761.
Location/Qualifiers
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/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4792000"
/tissue_type="hypothalamus"
/lab_host="DH10B"
/clone_id="NIH_MGC_96"

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FEATURES

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SOURCE
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/organism="Homo sapiens"
/mol_type="mRNA"
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/clone="IMAGE:4792000"
/tissue_type="hypothalamus"
/lab_host="DH10B"
/clone_id="NIH_MGC_96"

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/note="Organ: brain; Vector: pBluescriptR (modified
pBluescript KS+); Site 1: BamH; Site 2: SalI-XhoI (gscgag
); Oligo-dt primed using primer 5'-TTTTTTTTTTTTTTVN-3',
size selected for average insert size 2.3 kb and
normalized to ROT 5. This is a primary library enriched
for full-length clones and constructed using the
Cap-trapper method (Carninci, in preparation). Library
constructed by M. Brownstein (NIH/NHGRI, National
Institutes of Health). Note: this is a NIH_MGC Library."
BASE COUNT      182 a      230 c      225 g      162 t
ORIGIN

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Query Match      85.6%; Score 723; DB 10; Length 799;
Best Local Similarity 98.5%; Pred. No. 6.2e-59;
Matches 740; Conservative 0; Mismatches 10; Indels 1; Gaps 1;

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Qy      27 GGGCCGAGCGGAGCGGCGCGGAGTACGGGGAGCCGGGAGAGCGTCCGTAGCGCCC 86
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Db      14 GGGCCGAGCGGAGCGGCGCGGAGTACGGGGAGCCGGGAGAGCGTCCGTAGCGCCC 73
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Qy      87 CTCCGAGAGAGTGAAGCGCGGGCAGTGGGGTCCGATGTGTGAGTGAACCTT 146
        |||
Db      74 CTCCGAGAGAGTGAAGCGCGGGCAGTGGGGTCCGATGTGTGAGTGAACCTT 133
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Qy      147 GCGGCTTGAAGGACCACTTACCTGAGCTGGGCAAGTGTGAAGAGAGAGATCCGGGCA 206
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Db      134 GCGGCTTGAAGGACCACTTACCTGAGCTGGGCAAGTGTGAAGAGAGATCCGGGCA 193
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Qy      207 TCGAGATGAGTCCGCGCTCGGGGGCAGAGTGCCTTTGAGATGAGATAAATGAGACAGC 266
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Db      194 TCGAGATGAGTCCGCGCTCGGGGGCAGAGTGCCTTTGAGATGAGATAAATGAGACAGC 253
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Qy      267 TGGTGTCTCCAGCTGGAGAAATGGGGCTTCCCTATGAAAGATCTCATGAGGCA 326
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Db      254 TGGTGTCTCCAGCTGGAGAAATGGGGCTTCCCTATGAAAGATCTCATGAGGCA 313
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Qy      327 TCCGAAGAGCAGTAATGAGAAACCCAGAAAGATCAACAGACCGCTCCCTGCG 386
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Db      314 TCCGAAGAGCAGTAATGAGAAACCCAGAAAGATCAACAGACCGCTCCCTGCG 373
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Qy      387 TCATCTGTGACTGACAGAGACTCTGGGTTCTCTGTCTGAGGTCCTTCTGCT 446
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Db      374 TCATCTGTGACTGACAGAGACTCTGGGTTCTCTGTCTGAGGTCCTTCTGCT 433
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Qy      447 CTCCTTTGGTCTGCTGCTGAGGCTCCCTGCTCTTTCCCTTACTTACCTTTAGCA 506
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Db      434 CTCCTTTGGTCTGCTGCTGAGGCTCCCTGCTCTTTCCCTTACTTACCTTTAGCA 493
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Qy      567 CTGGGGGAGAGAGAGAGAGACTCTTCATGAAACCTTCTCAGACCTATACCCCTT 626
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Db      554 CTGGGGGAGAGAGAGAGAGACTCTTCATGAAACCTTCTCAGACCTATACCCCTT 613
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Qy      627 CCCAGGTAAGTGGCCAGAAAGCCAGTCACTCTTCCGCTCGGTAAATACCTGTGAT 686
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Db      614 CCCAGGTAAGTGGCCAGAAAGCCAGTCACTCTTCCGCTCGGTAAATACCTGTGAT 673
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Qy      687 GCCACAGATTTATTTATTTCTCCCTTAACCCAGGAGATGACGCTATTTGGCAGTAAGT 746
        |||
Db      674 GCCACAGATTTATTTATTTCTCCCTTAACCA-GGCAATGTACGCTATTGGCAGTAAGT 732
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Qy      747 GGGGCTACAAACACTAAATAAAAAAAAAA 777
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Db      733 GGGGCTACAAACACTAAATAAAAAAAAAA 763
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RESULT 4
LOCUS      Bg707555              778 bp      mRNA      linear      EST 07-MAY-2001
DEFINITION 602670604F1 NIH_MGC_96 Homo sapiens CDNA clone IMAGE:4793496 5',

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ACCESSION	mRNA sequence.
VERSION	BC707555
KEYWORDS	BC707555.1 GI:13984019
SOURCE	EST.
ORGANISM	Homo sapiens (human)
TITLE	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
JOURNAL	1 (bases 1 to 778)
COMMENT	NIH-MGC http://mgc.nci.nih.gov/ .
	National Institutes of Health, Mammalian Gene Collection (MGC)
	Unpublished
	Contact: Robert Strausberg, Ph.D.
	Email: cgabbs@mail.nih.gov
	Tissue Procurement: Miklos Palkovits, M.D., Ph.D.
	cDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki,
	Toshiyuki and Piero Carninci (RIKEN)
	cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
	DNA Sequencing by: Incyte Genomics, Inc.
	Clone distribution: MGC clone distribution information can be
	found through the I.M.A.G.E. Consortium/LLNL at:
	http://image.llnl.gov
	Plate: LLNMI0673 row: g column: 01
	High quality sequence stop: 764.

FEATURES

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/organism="Homo sapiens"
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/db_xref="taxon:9606"
/clone="IMAGE:4793496"
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/note="Organ: brain; Vector: pluescriptR (modified
pbluescript KS+); Site_1: BamHI; Site_2: SalI-XhoI (gtcagc
); Oligo-dT primed using primer 5'-tttttttttttttttVN-3',
size-selected for average insert size 2.3 kb and
normalized to R0T 5. This is a primary library enriched
for full-length clones and constructed using the
Cap-trapper method (carninci, in preparation). Library
constructed by M. Brownstein (NIH/NHGRI, National
Institutes of Health). Note: this is a NIH_MGC Library."

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Best Local Similarity	99.3%;	Pred. No. 8.2e-59;		
Matches 756; Conservative	0;	Mismatches 2;	Indels 3;	Gaps 3;

QY	18	GGAAAGCAGAGGGCCGAGAGCGGAGCGCGGAGTAAAGGGGGAGCCGGGGAGACGCTCG	77
Db	8	GGAAAGCAGAGGGCCCGCA-GCGAGCGCGGCGGATGAAGGAGGAGCCGGGGAGACGCTCG	66
QY	78	TAGCGCCCTCTCCGAGAGGTCGAGCGGCGAGTGGGGTCCGCACTCGTGGTGAAGTACT	137
Db	67	TAGCGCCCTCTCCGAGAGGTCGAGCGGCGAGTGGGGTCCGCACTCTGGTGAAGTACT	126
QY	138	GTGAACCTCGCGCTTCAGGCGACTTACTCTGAGCTTGCCAGTCTGTGAAGAGCAGT	197
Db	127	GTGAACCTCGCGCTTCAGGCGACTTACTCTGAGCTTGCCAGTCTGTGAAGAGCAGT	186
QY	198	ATCCGGGCGATCGAGATCGAGTTCGCGCCTCGGCGGCGACAGGTGCTTTGAGTAAAGATAA	257
Db	187	ATCCGGGCGATCGAGATCGAGTTCGCGCCTCGGCGGCGACAGGTGCTTTGAGTAAAGATAA	246
QY	258	ATGGAACAGCTGTGTTCTTCGAAGCTGGAGGAATGGGGGCTTTCCCTATAGAAAGATCTCA	317
Db	247	ATGGAACAGCTGTGTTCTTCGAAGCTGGAGGAATGGGGGCTTTCCCTATAGAAAGATCTCA	306
QY	318	TTGAGGCGCATCCGAAGAGCAGTATAGAGAAACCTAGAAAGATCCAAACGCGCTC	377
Db	307	TTGAGGCGCATCCGAAGAGCAGTATAGAGAAACATAGAAAGATCCAAACGCGCTC	366

QY	378	CTCCCTGGCATCTCTGTGACATGACAGAGACTCTGAGGATCTCGCTCTGTTCTGGGGTCCA	437
Db	367	CTCCCTGGCATCTCTGTGACTGCACAGAGACTCTGGATTCTGCTCTGTTCTGGGGTCCA	426
QY	438	AACCTTGGTCTCCCTTGGTCTGTGAGAGCTCCCTGCTCTTTTCCCTACTTAACT	497
Db	427	AACCTTGGTCTCCCTTGGTCTGTGAGAGCTCCCTGCTCTTTTCCCTACTTAACT	486
QY	498	CCTTAGCAAAAGAACCTTGGGCTTCACITTTGCTTGGGGTACAAAGAGAAATTGAAGA	557
Db	487	CCTTAGCAAAAGAACCTTGGGCTTCACITTTGCTTGGGGTACAAAGAGAAATTGAAGA	546
QY	558	TTCCGTGGCCTTTGGGGGAGAGAGAGACATCTCCATGAACACTTTCACAGCACTCA	617
Db	547	TTCCGTGGCCTTTGGGGGAGAGAGAGACATCTTCATGAACACTTTCACAGCACTCA	606
QY	618	TACCCCTCTCCAGAGGTAAGTGCACAGCAAGCCAGTCACTCTTCGCTCGGTAAATAC	677
Db	607	TACCCCTCTCCAGAGGTAAGTGCACAGCAAGCCAGTCACTCTTCGCTCGGTAAATAC	666
QY	678	CTGTCTGATGCAACAGATTTTATTTATTTCTCCCTAACCCAGGGCAATGTCACTATTGG	737
Db	667	CTGTCTGATGCAACAGATTTTATTTATTTCTCCCTAACCCA-GGCAATGTCACTATTGG	725
QY	738	CAGT-AAAGTGGCGCTCAAAACACTAAAAAAAAAAAAAAAAAAAAAAA 777	
Db	726	CAGTAAAGGGCGCTCAAAACACTAAAAAAAAAAAAAAAAAAAAAAA 766	

RESULT 5
B0434646
LOCUS
DEFINITION B0434646 754 bp mRNA linear EST 24-MAY-2007
AGENCOURT 7892547 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:6158703
5' mRNA sequence.
ACCESSION B0434646
VERSION B0434646
KEYWORDS B0434646.1 GI:21173722
EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniota; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
REFERENCE 1 (bases 1 to 754)
AUTHORS NIH-MGC <http://mgc.nci.nih.gov/>.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished
COMMENT Contact: Robert Strausberg, Ph.D.

Email: CSGabs-remail.nih.gov
Tissue Procurement: ATCC/CDT/DTF
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LMNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LMNL at:
<http://image.lnl.gov>
Plate: LMNL3506 row: j column: 16
High quality sequence stop: 529.

FEATURES

source

Query Match	BASE COUNT	ORIGIN
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Oy		583	AGACACTCTCCATGAACACTTCTTCAGGCAACCTCATACCCCCTTCCAGGGTAAGTGCC	642
Dd		569	AGAChCTTCATGAACAChTTTCAGGCACCTCATACCCCCTTCCAGGGTAAGTGCC	628
Oy		643	ACGAAGCCCAgTCACCTCTTCGCCGTGGATAATACCTGTGTGATGCCAAGATTTTATTT	702
Dd		629	ACGAAGCCCAgTCACCTTCCTCGGTAAATACCTGTGTGATGCCAAGATTTTATTT	688
Oy		703	ATTCTCCCCCTAACCCAGGCGCAATGTCACTATTGGCAGTAAAGTGGCGCTACAAACACTA	762
Dd		689	ATTCTCCCCCTAACCCA-GGCAATGTCACTATTGGCAGTAAAGTGGCGCTACAAACACTA	747
Oy		763	AAAAAAAAAAAAAAA 777	
Dd		748	AAAAAAAAAAAAAAA 762	
RESULT 7		BUI70259		
LOCUS		BUI70259		
DEFINITION		BUI70259	720 bp mRNA linear EST 04-SEP-2000	
ACCESSION		AGENCOURT_7909281 NIH_MGC_70	Homo sapiens cDNA clone IMAGE:6092434	
VERSION		BUI70259	5'', mRNA sequence.	
KEYWORDS		BUI70259.1 GI:22684243		
SOURCE		EST.		
ORGANISM		Homo sapiens (human)		
REFERENCE		Homo sapiens		
AUTHORS	*	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
TITLE		Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.		
JOURNAL		NIH-MGC http://mgc.nci.nih.gov/.		
COMMENT		National Institutes of Health, Mammalian Gene Collection (MGC)		
		Unpublished		
		Contact: Robert Strausberg, Ph.D.		
		Email: cgabbs-r@mail.nih.gov		
		Tissue Procurement: ATCC		
		cDNA Library Preparation: Life Technologies, Inc.		
		DNA Sequencing by: Agencourt Bioscience Corporation (LLNL)		
		Clone distribution: MGC clone distribution information can be		
		found through the I.M.A.G.E. Consortium/LLNL at:		
		http://image.llnl.gov		
		Plate: LILML1360 row: a column: 11		
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		/clone_lib="NIH MGC 70"		
		/note="Organ: pancreas; Vector: pCMV-SPORE6; Site:1; NotI		
		Site:2; SalI; Cloned unidirectionally. Primer: Oligo dT.		
		Average insert size 1.1 Kb. library constructed by Life		
		Technologies."		
BASE COUNT		168 a 207 c 191 g 154 t		
ORIGIN				
Query Match		85.1%; Score 719; DB 13; Length 720;		
Best Local Similarity		100.0%; Pred.No. 1.6e-58;		
Matches		719; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
Oy		60	AGCCGGGAGACGTCGCCGAGGAGCCGCCCTCCGAGAGAGGTGAGCCGGGCACTGGGGTCC	119
Dd		1	AGCCGGGAGACGTCGCCGAGGAGCCGCCCTCCGAGAGAGGTGAGCCGGGCACTGGGGTCC	60
Oy		120	GCAATCGATGAGTAGTACTGTGAACCTCGCGCTTCGAGGCGAChTACCTGAGCTGGCCA	179
Dd		61	GCATCGTGTGAGTAGTACTGTGAACCTCGCGCTTCGAGGCGAChTACCTGAGCTGGCCA	120
Oy		180	GTGCTGTGAAGACGATATCCGGGAGTCGAATCGAATCGATCGCGCTCGGGGACACAGTGG	239

Db	121	GTGCTGTGAAGAGGAGCACTATCCGGGCAATGAGATTCAGAGTGGCCCTCTGGGGGGCACAAGTGG	180
QY	240	CTTTGAGATGATGATTAATGACAACAGTGGTGTCTTCCAAAGCTGGAGATGGGGGCTTTCC	299
Db	181	CCTTTGAGATGAGATTAATGACAAGTGGTGTCTTCCAAAGCTGGAGAAAGGGGGGCTTTCC	240
QY	300	CCATGAGAAAGATTCATTTAGAGCCATCCGAAGAGCAGCTAATTTGGAAGAAACCTTAATAA	359
Db	241	CCATGAGAAAGATTCATTTAGAGCCATCCGAAGAGCAGCTAATTTGGAAGAAACCTTAATAA	300
QY	360	AGATCAACCAACAGCCGCTCTCCCTGGCTCATCTCTGACTGCAACAGGACTCTGGGTTCT	419
Db	301	AGATCAACCAACAGCCGCTCTCCCTGGCTCATCTCTGACTGCAACAGGACTCTGGGTTCT	360
QY	420	GCTCTGTTCTGGGGTCCAAACCTTTGGTCTCCCTTTGGTCTCTGCTGGAGCTCCCTGGCC	479
Db	361	GCTCTGTTCTGGGGTCCAAACCTTTGGTCTCCCTTTGGTCTCTGCTGGAGCTCCCTGGCC	420
QY	480	TCCTTCCCCTTAAGTGGCTCTTGAAGCAAGAGACCCCTGGACCTTGCACCTTGGGTTA	539
Db	421	TCCTTCCCCTTAAGTGGCTCTTGAAGCAAGAGACCCCTGGACCTTGCACCTTGGGTTA	480
QY	540	CAAGAAGATAGAAATTCGCTGGGCTTGGGGGGCAGAGAGACACTTCCATGAAC	599
Db	481	CAAGAAGATAGAAATTCGCTGGGCTTGGGGGGCAGAGAGACACTTCCATGAAC	540
QY	600	ACTTCTCCAGCCACTCATACCCCTTCCAGGGTAAGTCCCAAGGCCAGTCCAC	659
Db	541	ACTTCTCCAGCCACTCATACCCCTTCCAGGGTAAGTCCCAAGGCCAGTCCAC	600
QY	660	TCCTTGGCTGGTAATCTCTGTCTGAAGCCACAGATTTATTTCTCCCTTAACCCAG	719
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QY	720	GGCAATCTCAGCTATTGGCAGTAAGTGGCGCTTACAAACACTAATAAAAAAAAAAAAAA	778
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/tissue_type="Alveolar Macrophage"
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/lab_host="DH10B (Life Technologies)"
/clone_lib="NCL_CGAP_Frt1"
/note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a modified polylinker; Site 1: EcoR I; Site 2: Not I; NCL_CGAP Frt1 is a normalized cDNA library constructed from a pool of 81 RNA samples from Alveolar Macrophages challenged with different treatments. The library was normalized according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into pT7T3-Pac vector. The oligonucleotide used to prime the synthesis of first-strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is GGCCATGCCG. The tissue was provided by Dr. Gary W. Hunningake of the University of Iowa.
TAG_LIB=U1-H-Frt1
TAG_ISSUE=Human Lung
Aveolar Macrophage
TAG_SEO=GGCCATGCCG"

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Query Match	84.7%	Score 716	DB 14	Length 717
Best Local Similarity	99.9%	Pred. No.	38	58
Matches	716	Conservative	0	Mismatches 1
		Indels	0	Gaps 0

QY	63	CGGGGCAACGTCCTCGTAGCGCCCTCCCGAGAGAGTCGAGCCGGGCACTGGGGTCCGA	122
Db	717	CGGGGCAACGTCCTCGTAGCGCCCTCCCGAGAGAGTCGAGCCGGGCACTGGGGTCCGA	658
QY	123	TCGTGTGATGAATACCTGTGTAACCTCTCGGCTTGAGAGCGCACTACCTGAGCTGGCCAGTG	182
Db	657	TCGTGTGATGAATACCTGTGTAACCTCTCGGCTTGAGAGCGCACTACCTGAGCTGGCCAGTG	598
QY	183	CTGTGAAGACACGATATCCGGGCATCGAGATCGAGTCGCGCCTCGGGGGCACAGGTGCT	242
Db	597	CTGTGAAGACACGATATCCGGGCATCGAGATCGAGTCGCGCCTCGGGGGCACAGGTGCT	538
QY	243	TTTGATATGAATATATGACAGCTGGGTGTTCCAACTGGAGAAATGGGGCTTTCCT	302
Db	537	TTTGATATGAATATATGACAGCTGGGTGTTCCAACTGGAGAAATGGGGCTTTCCT	478
QY	303	ATGAGAAAGATCTCATTTGAGGCGCATCCGAAAGACGATATGAGAAACCTTAGAAAGA	362
Db	477	ATGAGAAAGATCTCATTTGAGGCGCATCCGAAAGACGATATGAGAAACCTTAGAAAGA	418
QY	363	TCACCAACAGCCGTCCTCTGCGTCATCTGTGACTGACACAGAACTCTGGGTTCCYGT	422
Db	417	TCACCAACAGCCGTCCTCTGCGTCATCTGTGACTGACACAGAACTCTGGGTTCCYGT	358
QY	423	CTGTTCGGGGTCCAAACCTTGATCTCCCTTGGATCGTGTGAGAGCTCCCGCTGCT	482
Db	357	CTGTTCGGGGTCCAAACCTTGATCTCCCTTGGATCGTGTGAGAGCTCCCGCTGCT	298
QY	483	TTCCCTTACTTAAGCTCTTAGCAAGAAGACCTGGCTTCACATTGGCCTTGGGTCAA	542
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QY	543	AGAAGAAATAGAATTCCTGTGGCTTGAGGGGACAGAGAGACACTCCATGAAACCT	602
Db	237	AGAAGAAATAGAATTCCTGTGGCTTGAGGGGACAGAGAGACACTCCATGAAACCT	178
QY	603	TTTCAGGCACCTCATACCCCCCTTCCAGGGTAAGTGGCCAGAAAGCCCACTCACT	662
Db	177	TTTCAGGCACCTCATACCCCCCTTCCAGGGTAAGTGGCCAGAAAGCCCACTCACT	118
QY	663	TCGCGTGGGTAAATCCTGTGTGATGSCACAGATTTATTTATTCCTCCCTAACCAAGGC	722
Db	117	TCGCGTGGGTAAATCCTGTGTGATGSCACAGATTTATTTATTCCTCCCTAACCAAGGC	58

QY 723 AATTCAGCTATTGGCAGTAAAGTGGCGCTACAAACACTAAAAAAAAAAAAAAAA 779

D5 57 AATTCAGCTATTGGCAGTAAAGTGGCGCTACAAACACTAAAAAAAAAAAAAAAA 1

LOCUS DEFINITION	917 bp	mRNA	linear	EST 24-MAY-2002
ACCESSION	BQ436860			
VERSION	AGENCOURT_7829020	NIH_MGC_68	Homo sapiens	CDNA clone IMAGE:6056517
KEYWORDS	5', mRNA sequence.			
SOURCE	BQ436860.1	GI:21175936		
ORGANISM	EST.			
	Homo sapiens (human)			
	Homo sapiens			
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
	Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.			
REFERENCE	1 (bases 1 to 917)			
AUTHORS	NIH-MGC	http://mgc.nci.nih.gov/.		
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)			
JOURNAL	Unpublished			
COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgabs-r@mail.nih.gov Tissue Procurement: DCTD/DTF/Gazdar CDNA Library Preparation: Life Technologies, Inc. CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN) DNA Sequencing by: Agencourt Bioscience Corporation Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNLN at: http://image.lnl.gov Plate: LLM13318 row: h column: 22 High quality sequence stop: 650.			

FEATURES	
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	/clone_1fb="NH_MGC_68"
	/note="Organ: lung; Vector: pCMV-SPORT6; site_1: NotI; site_2: SalI; Cloned unidirectionally. Primer: Oligo dr. Average insert size 1.8 kb. Library constructed by Life Technologies."
BASE COUNT	188 a 281 c 259 g 186 t 3 others
ORIGIN	

	Query Match	84.2%	Score 711.4	DB 13	Length 917
	Best Local Similarity	97.5%	Pred. No. 6.9e-58		
	Matches 732	Conservative 0	Mismatches 18	Indels 1	Gaps 1
Qy	26	GGGCCCCGAGGCGAGACC	GGCGCATAGCGGGAGCGGGGCGAGAGTCCGTAGCGCC	85	
Db	1	GGGGCCCCAGCGGAGCCCGG	CCCATAGCCGGGAGCGGGGCGAGAGTCCGTAGCGCC	60	
Qy	86	CCTCCGAGGAGTTCGAGCC	CGGGCAGTGGGGTTCGCATCTGTGTGAGTACTGTGAACCC	145	
Db	61	CTTCCCGAGGAGTTCGAGCC	CGGGCAGTGGGGTTCGCATCTGTGTGAGTACTGTGAACCC	120	
Qy	146	TGCGGCTTCGAGGCGACCTT	ACTTGAGCTGGCCAGTCTCTGTGAAGGACGATATCCGGGC	205	
Db	121	TGCGGCTTCGAGGCGACCTT	ACTTGAGCTGGCCAGTCTCTGTGAAGGACGATATCCGGGC	180	
Qy	206	ATTCGAGATCGAGTGGCGCTT	CGGGGGGACAGGTGCCCTTTAGATTAAGATTAATTGCACAG	265	
Db	181	ATTCGAGATCGAGTGGCGCTT	CGGGGGGACAGGTGCCCTTTAGATTAAGATTAATTGCACAG	240	
Qy	266	CTGGGTCTTCCAAAGCTGAGAA	TGGGGGCTTTCCCATATGAAAGATCTCATTTGAGGC	325	
Db	241	CTGGGTCTTCCAAAGCTGAGAA	TGGGGGCTTTCCCATATGAAAGATCTCATTTGAGGC	300	

QY 326 ATCCGAGAGCAGTAAATGAGAGAAACCTAGAAAAGATCAACACAGCCGCTCCTGCG 385
 DB 301 ATCCGAGAGCAGTAAATGAGAGAAACCTAGAAAAGATCAACACAGCCGCTCCTGCG 360
 QY 386 GTCATCTGATGACAGAGACTCTGGGTTCTGCTCTGCTGGGGTCCAAACCTTGG 445
 DB 361 GTCATCTGATGACAGAGACTCTGGGTTCTGCTCTGCTGGGGTCCAAACCTTGG 420
 QY 446 TCTCCCTTGTGCTGCTGGAGAGTCCCGCTGCTCTTCCCTACTAGTCTTGA 505
 DB 421 TCTCCCTTGTGCTGCTGGAGAGTCCCGCTGCTCTTCCCTACTAGTCTTGA 480
 QY 506 AAGAGACCTGAGCTTCCACTTGGGTTGGGTTCAAAAGAAATAGAAATCCGTTG 565
 DB 481 AAGAGACCTGAGCTTCCACTTGGGTTGGGTTCAAAAGAAATAGAAATCCGTTG 540
 QY 566 CTTGGGGGAGAGAGAGACACTCTGATGACACTTCTGACCCACTCATACCCCT 625
 DB 541 CTTGGGGGAGAGAGAGACACTCTGATGACACTTCTGACCCACTCATACCCCT 600
 QY 626 TCCGAGGTTAGTCCGACCAAGCCAGTCACTCTTCCGCTGGTAATCCGTTGA 685
 DB 601 TCCGAGGTTAGTCCGACCAAGCCAGTCACTCTTCCGCTGGTAATCCGTTGA 660
 QY 686 TGCCACAGATTTTATTTATCT-CCCTTAACCCAGGCAATGTGAGTATGGAGTAAA 744
 DB 661 TGCCACAGATTTTATTTATCTCCCTTAACCCAGGCAATGTGAGTATGGAGTAAA 720
 QY 745 GTGGCGCTACCAACACTTAAAAAATAAAAA 775
 DB 721 GTGGCGCTACCAACCAAAANATGAGCACA 751
 RESULT 10
 BG757381 705 bp mRNA linear EST 15-MAY-2001
 LOCUS 60271108F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4851672 5',
 DEFINITION mRNA sequence.
 BG757381
 ACCESSION BG757381.1 GI:14068034
 VERSION EST.
 KEYWORDS Homo sapiens (human)
 SOURCE Homo sapiens
 ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 REFERENCE 1 (bases 1 to 705)
 AUTHORS NIH-MGC http://mgi.nci.nih.gov/.
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cga@bbs-remail.nih.gov
 Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
 cDNA Library Preparation: Ling Hong/Rubin Laboratory
 DNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
 http://image.llnl.gov
 Plate: LNCM694 row: 0 column: 01
 High quality sequence stop: 700.
 Location/Qualifiers
 1..705
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:4851672"
 /tissue_type="Primary B-cells from tonsils (cell line)"
 /lab_host="pDH10B (phage-resistant)"
 /clone_lib="NIH_MGC_48"
 /note="Organ: B-cells; Vector: pOTB7; Site_1: XhoI;
 Site_2: EcoRI; cDNA made by oligo-dT priming.
 Directionally cloned into EcoRI/XhoI sites using the
 following 5' adaptor: GGCACGAG(G). Size-selected >500bp

for average insert size 1.8kb. Library constructed by Ling
 Hong in the laboratory of Gerald M. Rubin (University of
 California, Berkeley) using ZAP-cDNA synthesis kit
 (Stratagene) and Superscript II RT (Life Technologies).
 Note: this is a NIH_MGC library.

Query Match 82.2% Score 695; DB 10; Length 705;
 Best Local Similarity 99.3% Pred. No. 2.7e-56;
 Matches 698; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

BASE COUNT 149 a 205 c 201 g 150 t
 ORIGIN
 49 GATGAGCGGGAGACCGGGGAGAGAGTCCGAGGCCCTCCGAGAGGTGAGCCGG 108
 DB 2 GATGAGCGGGAGACCGGGGAGAGAGTCCGAGGCCCTCCGAGAGGTGAGCCGG 61
 QY 109 CAGTGGGGTCCGATGCTGTGAGATGTAACCTTGCGGCTTGAAGGCGACCTA 168
 DB 62 CAGTGGGGTCCGATGCTGTGAGATGTAACCTTGCGGCTTGAAGGCGACCTA 121
 QY 169 GAGAGTGGCCAGTGTGAGAGAGAGATCCGGGATCGAGATGAGTCGGGCTCG 228
 DB 122 GAGAGTGGCCAGTGTGAGAGAGAGATCCGGGATCGAGATGAGTCGGGCTCG 181
 QY 229 GGGCAGAGGTGCTTGAATGAGATTAATGAGACAGTGTGTTCTCAAGCTGAGAA 288
 DB 182 GGGCAGAGGTGCTTGAATGAGATTAATGAGACAGTGTGTTCTCAAGCTGAGAA 241
 QY 289 TGGGGGCTTCCCTTATGAGAAAGATCTCATTTAGGCCATTCGAAAGCCAGTATGAGA 348
 DB 242 TGGGGGCTTCCCTTATGAGAAAGATCTCATTTAGGCCATTCGAAAGCCAGTATGAGA 301
 QY 349 AACCTAGAAAAGATCAACCAAGCCGTCCTCCCTGCTGATCTGATGACAGAGAC 408
 DB 302 AACCTAGAAAAGATCAACCAAGCCGTCCTCCCTGCTGATCTGATGACAGAGAC 361
 QY 409 TCTGGGTTCTGCTGTTCTGTGGGTTCAAAACCTTGCTCTCTGCTGAGAG 468
 DB 362 TCTGGGTTCTGCTGTTCTGTGGGTTCAAAACCTTGCTCTCTGCTGAGAG 421
 QY 469 CTCGCCCTGCTCTTTCCTTACTTACTGATCTTGAAGAAAGACCTTGCTCACTTGG 528
 DB 422 CTCGCCCTGCTCTTTCCTTACTTACTGATCTTGAAGAAAGACCTTGCTCACTTGG 481
 QY 529 CCTTTGGGTAAAGAGATTAAGAAATTCGTTGGGCTTGGGGGAGAGAGACAC 588
 DB 482 CCTTTGGGTAAAGAGATTAAGAAATTCGTTGGGCTTGGGGGAGAGAGACAC 541
 QY 589 TCTCATGAAACACTTCTCCAGCCACTCATACCCCTTCCAGGGTAAGTCCCGAGAAA 648
 DB 542 TCTCATGAAACACTTCTCCAGCCACTCATACCCCTTCCAGGGTAAGTCCCGAGAAA 601
 QY 649 GCCCAGTCCACTTGGGCTCGGTAAATACCTGTCTGATGCAAGATTTATTTATCTC 708
 DB 602 GCCCAGTCCACTTGGGCTCGGTAAATACCTGTCTGATGCAAGATTTATTTATCTC 661
 QY 709 CCTTAACCCAGGCAATGTGAGCTATTTGGAGTAAAGTGGCGC 751
 DB 662 CCTTAACCCAGGCAATGTGAGCTATTTGGAGTAAAGTGGCGC 704

RESULT 11
 BUI66943 724 bp mRNA linear EST 04-SEP-2002
 LOCUS BUI66943
 DEFINITION AGENCOURT_7966168 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:6165172
 5', mRNA sequence.
 BUI66943
 ACCESSION BUI66943.1 GI:22680895
 VERSION EST.
 KEYWORDS Homo sapiens (human)
 SOURCE Homo sapiens
 ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE	1 (bases 1 to 724)
AUTHORS	NIH-MGC http://mgc.ncbi.nlm.nih.gov/ .
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL	Unpublished
COMMENT	Contact: Robert Strausberg, Ph.D.

1 (bases 1 to 724)
 NIH-MGC <http://mgc.nci.nih.gov/>.
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished
 Contact: Robert Strausberg, Ph. D.
 Email: cgabs-remail.nih.gov
 Tissue Procurement: ATCC/DCMD/DMP
 cDNA Library Preparation: Life Technologies, Inc.
 DNA Sequencing by: The I.M.A.G.E. Consortium (LNL)
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
<http://image.lnl.gov>
 plate: LHAM3523 row: h column: 05
 high quality sequence stop: 584.

FEATURES	Location/Qualifiers
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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:6165172"
/tissue_type="melanotic melanoma"
/lab_host="PDH10B (phage-resistant)"
/clone_slib="NH MCC_72"
/note="Organ: skin; Vector: pCMV-SPORT6; Site_1: NotI;
Site_2: SalI; Cloned unidirectionally. Primer: Oligo dT
Average insert size 2 kb. Library constructed by Life
Technologies."

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BASE COUNT	166 a	208 c	196 g	153 t	1 other
ORIGIN					

Query Match	82.2%;	Score 694.2;	DB 13;	Length 724;
Best Local Similarity	99.3%;	Pred. No. 3.1e-56;		
Matches, 718;	Conservative	0;	Mismatches 3;	Indels 2;
			Gaps	2

Oy 57 GGGAGCCCCGAGACGTCCCTAGCCGCCCCCTCCCGAGGAGGTGAGCCGGGCAGT3GGG 116
Db 1 GGGAGCCCCGAGACGTCCCTAGCCGCCCCCTCCCGAGGAGGTGAGCCGGGCAGT3GGG 60

117 TCCGATCGGTGGAGTACTGTGAACCCCTGCGGCTTGAGGCGACCTACCTGGAGCTTGG 176
 Db 61 TCCGATCGGTGGAGTACTGTGAACCCCTGCGGCTTGAGGCGACCTACCTGGAGCTTGG 120

121 CCAGTCTGTGAAGAGCAATATCCGGGCAATCGAGTCTGCGCCCTCGGGGGCAAG 180

Db 181 GTGCTTTGAGATAGATATAATGACAGCTGGTGTCTCCAAAGCTGAGAAATGGGJGCT 240

Db	241	TTCCCTATGAGAAAGTCTCAATTGAGGCCATCCGAAGAGCCAGTAATCGAGAAACCTTAG	300
Qy	357	AAAAGATCACCAACAGCCCGTCTCCCTCGCTATCCTGTGACTGCACAGAGACTCTGAGATT	416

Db 301 AAAAGATCACCAACAGCCGTCCTCCTGCGATCCTGTGACTGCACAGGACTCTGCGTT 360

Dy 417 CCGCTCTGTTCTGGGGTCAAACTTGTCTCCCTTTGTCTCTGCTGGGAGCTCCCTCCT 476

DB 361 CCTGCTCTGTTCTGGGGTCCAAACCTTGGTCTCCCTTTGGTCTGTGGGAGCTCCCTCCT 420

DY 477 GCCTTTTCCCTACTAGCTCTTAGCAAGAAGACCCTGGCCTCACTTTGCCCTTTGG 536

[illegible]

597 AACACTTCCAGCCACCTCATACCCCTTCCAGGGTAAGTGCACGAAAGCCCACTC 656

Db	541	AAACACTTTCAG6CACCACTCATACCCCTTCCAG6GTAATGTGCCACGAAAGCCAGTC	660
Qy	657	CACCTCTTGCCCTCGGTAATACCTGTCTGATGSCCAAGATTTTA-TTTATTTCTCCCTAA-	714
Db	601	CACCTTTCGCTCGGTAATACTGTCTGATGSCCAAGATTTTATTATTTATTTCTCCCTAAC	660
Qy	715	CCCAAGGGCAATGTCAAGCTTTTGGCGTAAAGTGGCGCTACAAACACTTAAAAAAAAAAAA	774
Db	661	CCCAAGGGGAGTGTGAGCTATTGGCAGTAAAGGGGCGCTACAAACACTTAAAAAAAAAAAA	720
Qy	775	AAA	
Db	721	AAA	

RESULT 12

LOCUS	BF339127	759 bp	linear	EST 22-NOV-2000
DEFINITION	602038428bp1 NCI_CGAP_Brn6	Hom sapiens	cdna clone	IMAGE:4185398
ACCSSION	5', mRNA sequence.			

VERSION	BF339127.1	GI:11285550
KEYWORDS	Homo sapiens	
SOURCE	Homo sapiens (human)	
ORGANISM	Homo sapiens	

REFERENCE
AUTHORS
NIH-MGC <http://mgc.ncl.nih.gov/>.
1 (bases 1 to 759)
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
Bukariyot; Metazoa; Cnoproata; Craniata; Vertebrata; Butelsooscom; A

JOURNAL COMMENT

Unpublished

Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov

Revised Manuscript: David N. Louis, M.D.
Revised Manuscript: David N. Louis, M.D.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>

Plate: LLAM3507 row: g column: 07

High quality sequence: 705.

FEATURES
source

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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4186398"
/tissue_type="g11b1oblastoma with EGFR amplification"
/lab_host="DH10B (T1 phage-resistant)"
/clone_id="NCI_CGAP_Brn64"
/note="Organ: brain; Vector: pCMV-SPORT6, Site_1: NotI; Site_2: SalI; Cloned unidirectionally. Primer: Oligo dT. Average insert size 1.57 kb. Constructed by Life Technologies. Note: this is a NCI_CGAP Library."

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	ORIGIN	
Query Match	82.0 %	Score 692.8 ; DB 10 ;
Best Local Similarity	97.4 %	Length 759 ;
	Pred NO 4	1e-56 ;

Matches	736;	Conservative	0;	Mismatches	177;	Indels	3;	Gaps	5;
30	CCGAGGCGGAGCTCGCCGATGTAGCGGGAGCGGGGACAGACGTCCGTAGCGGCCCTTC	89							

90 CCGAGGAGGTCGAGCCGGCAGTGGGGTCCGCATCTGTGAGTACTGTGAACCCMCG 149

Oy 150 GCTTCGAGCGACCTACCTGGAGCTGGCCAGTGTGTGAAGGAGCAGTATCCGGGCATCG 209
| | | | |
Db 122 GCTTCGAGCGACCTACCTGGAGCTGGCCAGTGTGTGAAGGAGCAGTATCCGGGCATCG 181

Db 122 GCTTCGAGGCGACCTACCTGGAGCTGGCCAGTCTGTGAAGGAGCAGTATCCGGGCATCG 181

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QY 210 AGATCGAGTCCGCTCGGGGGGACAGAGTCCCTTTGAGATAGATTAATGACAGCTGG 269
    |||||
Db 182 AGATCGAGTCCGCTCGGGGGGACAGAGTCCCTTTGAGATAGATTAATGACAGCTGG 241
QY 270 TGTTCCTCAAGCTGAGAGATGGGGGCTTTCCCTATGAGAAAGATCTATTGAGCCATCC 329
    |||||
Db 242 TGTTCCTCAAGCTGAGAGATGGGGGCTTTCCCTATGAGAAAGATCTATTGAGCCATCC 301
QY 330 GAAGAGCAGTAAATGAGAAACCTAGAAAGATCAACCAAGCCGCTCCCTGCGCTCA 389
    |||||
Db 302 GAAGAGCAGTAAATGAGAAACCTAGAAAGATCAACCAAGCCGCTCCCTGCGCTCA 361
QY 390 TCTGTGACTGACAGAGACTTGGGTTCTGCTCTGTTTCTGGGGTCCAAACCTTGGTCTC 449
    |||||
Db 362 TCTGTGACTGACAGAGACTTGGGTTCTGCTCTGTTTCTGGGGTCCAAACCTTGGTCTC 421
QY 450 CCTTTGCTCTGCTGGAGAGTCCCGCTGCTCTTCCCTCACTTAAGTCTCTTACCAAGA 509
    |||||
Db 422 CCTTTGCTCTGCTGGAGAGTCCCGCTGCTCTTCCCTCACTTAAGTCTCTTACCAAGA 481
QY 510 GACCCCTGCTCCACTTGGCCTTTGGGTTCAAAAGAGAAATAGAAATTCGGTGGCTT 569
    |||||
Db 482 GACCCCTGCTCCACTTGGCCTTTGGGTTCAAAAGAGAAATAGAAATTCGGTGGCTT 541
QY 570 GGGGGGACAGAGAGACACTCTCCATGAAACATTTCTCAGCCACTTCAACCCCTTCCC 629
    |||||
Db 542 GGGGGGACAGAGAGACACTCTCCATGAAACATTTCTCAGCCACTTCAACCCCTTCCC 601
QY 630 AGGGTAAGTCCCAAGAAAGCCCAAGTCACTTGGCTGGGTAAATACC-TGTGTATGC 688
    |||||
Db 602 AGGGTAAGTCCCAAGAAAGCCCAAGTCACTTGGCTGGGTAAATACC-TGTGTATGC 661
QY 689 CACGATTTTATTTATCTCCCTTAACCAAGGCAATGTCACTAT-TGGCAGTAAAGTG 747
    |||||
Db 662 CACGATTTTATTTATCTCCCTTAACCAAGGCAATGTCACTAT-TGGCAGTAAAGTG 720
QY 748 GCGCTACAAACACTTAAAAAATAAAAAATAAAAA 783
    |||||
Db 721 GCGCTACAAACACTTAAAAAATAAAAAATAAAAA 756

RESULT 13
BF793444 713 bp mRNA linear EST 12-JAN-2001
LOCUS 60254920F1 NIH_MGC_84 Homo sapiens cDNA clone IMAGE:4347292 5',
DEFINITION mRNA sequence.
ACCESSION BF793444 GI:12098498
VERSION BF793444.1
SOURCE Homo sapiens (human)
KEYWORDS EST.
ORGANISM Homo sapiens
REFERENCE 1. (bases 1 to 713)
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
TITLE NIH-MGC http://mgi.nci.nih.gov/.
JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT Unpublished
Contact: Robert Strausberg, Ph.D.
Email: cgabbs-remail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNLN at:
http://image.lnl.gov
Plate: LHAM9970 row: 9 column: 05
High quality sequence stop: 709.
Location/Qualifiers
1. 713
/organism="Homo sapiens"
/mol_type="mRNA"

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/clone="IMAGE:4347292"
/issue_type="adrenal cortex carcinoma, cell line"
/lab_host="DH10B (phage-resistant)"
/clone_1ib="NIH_MGC_84"
/Note="Organ: adrenal gland; Vector: pCMV-Sport6; Site_1:
NotI; Site_2: SalI; Cloned unidirectionally; oligo-dT
primed. Average insert size 1.229 kb. Library enriched for
full-length clones and constructed by Life Technologies.
Note: this is a NIH_MGC Library."

BASE COUNT 167 a 204 c 187 g 155 t
ORIGIN
Query Match 81.7%; Score 690.4; DB 10; Length 713;
Best Local Similarity 99.7%; Pred. No. 7.2e-56;
Matches 702; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 76 CGTAGGCCCCCCCCCGAGAGAGTCAAGCCGAGTGGGGTCCGATGCTGTGAGTA 135
    |||||
Db 8 CGTAGGCCCCCCCCCGAGAGAGTCAAGCCGAGTGGGGTCCGATGCTGTGAGTA 67
QY 136 CTGTGAACCTCGGGGCTTGAAGGCACTACCTGAGAGTGGCCAGTGTGAGAGCA 195
    |||||
Db 68 CTGTGAACCTCGGGGCTTGAAGGCACTACCTGAGAGTGGCCAGTGTGAGAGCA 127
QY 196 GTATCCGGGATGAGATGAGTGGGCTTGGGGGACAGAGTGCCTTTGATAGAT 255
    |||||
Db 128 GTATCCGGGATGAGATGAGTGGGCTTGGGGGACAGAGTGCCTTTGATAGAT 187
QY 256 AATGACAGTGTGTCTTCCAAAGTGAAGATGGGGGCTTCCCTATGAGAAATCT 315
    |||||
Db 188 AATGACAGTGTGTCTTCCAAAGTGAAGATGGGGGCTTCCCTATGAGAAATCT 247
QY 316 CATTGAGGCGATCCGAAGAGCCAGTATGAGAGAAACCTTAGAAATGACCAACAGCCG 375
    |||||
Db 248 CATTGAGGCGATCCGAAGAGCCAGTATGAGAGAAACCTTAGAAATGACCAACAGCCG 307
QY 376 TCTCTCCGCTGATCTGTGACTGCAAGAGACTTGGGTTCTGCTCTGTGAGGTC 435
    |||||
Db 308 TCTCTCCGCTGATCTGTGACTGCAAGAGACTTGGGTTCTGCTCTGTGAGGTC 367
QY 436 CAATCCCTGCTCCCTTTGCTGCTGAGAGCTCCCTGCTCTTTCCCTACTTAG 495
    |||||
Db 368 CAATCCCTGCTCCCTTTGCTGCTGAGAGCTCCCTGCTCTTTCCCTACTTAG 427
QY 496 CTCCTTAGCAAGAGAGCCCTGCTCACTTGGCTTGGGTACAAAGAGATAGAA 555
    |||||
Db 428 CTCCTTAGCAAGAGAGCCCTGCTCACTTGGCTTGGGTACAAAGAGATAGAA 487
QY 556 GATTCCGCTGCTTTGGGGGACAGAGAGACACTTTCATGAACACTTTCAGCCACT 615
    |||||
Db 488 GATTCCGCTGCTTTGGGGGACAGAGAGACACTTTCATGAACACTTTCAGCCACT 547
QY 616 CATACCCCTTCCCAAGGTAAAGGCCAGAAAGCCAGTCCCTGCGCTGGTAAT 675
    |||||
Db 548 CATACCCCTTCCCAAGGTAAAGGCCAGAAAGCCAGTCCCTGCGCTGGTAAT 607
QY 676 ACCTGCTGATGACAGATTTTATTATTTCTCCCTAACCCAGGCGAATGATGAT 735
    |||||
Db 608 ACCTGCTGATGACAGATTTTATTATTTCTCCCTAACCCAGGCGAATGATGAT 666
QY 736 GGCAGTAAAGTGGCGCTACCAACACTTAAAAAATAAAAA 779
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Db 667 GGCAGTAAAGTGGCGCTACCAACACTTAAAAAATAAAAA 710

RESULT 14
BM981287 711 bp mRNA linear EST 21-FEB-2003
LOCUS BM981287/c
DEFINITION UI-CF-EN1-adh-a-08-0-UI .s1 UI-CF-EN1 Homo sapiens cDNA clone
ACCESSION BM981287
VERSION BM981287.1 GI:19603618

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/tissue_type="Cell lines"
/dev_stage="Adult"
/lab_host="DH10B (Life Technologies)"
/clone_lib="NCI CGAP FGI"
/note="Organ: Enchondroma; Vector: pT73-Pac (Pharmacia)
with a modified polylinker; Site_1: EcoR I; Site_2: Not I;
NCI CGAP FGI is a normalized cDNA library obtained from a
pool of mRNA from 2 cell lines from Enchondroma tissues.
The library was constructed according to Bonaldo, Lennon
and Soares, Genome Research, 6:791-806, 1996. First strand
cDNA synthesis was primed with an oligo-dT primer
containing a Not I site. Double stranded cDNA was ligated
to an EcoR I adaptor, digested with Not I, and cloned
directionally into pT73-Pac vector. The oligonucleotide
used to prime the synthesis of first-strand cDNA contains
a library tag sequence that is located between the Not I
site and the (dT)18 tail. The sequence tag for this
library is CGGTCACTC. The cell lines were provided by Dr.
James Martin from the University of Iowa.
TAG LIB=UI-H-FGI
TAG TISSUE=Enchondroma cell line (Mix of EN1 and EN2)
TAG_SEQ=CGGTCACTC"
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BASE COUNT 167 a 208 c 227 g 185 t

ORIGIN

Query Match 81.1%; Score 685.2; DB 13; Length 787;

Best Local Similarity 97.8%; Pred. No. 2,1e-55;

Matches 726; Conservative 0; Mismatches 13; Indels 3; Gaps 3;

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QY 38 GAGCGGCGCGGATGAGCGGGGAGCGGGGAGAGCGTCGTCGAGCGCCCTCCCGAGAG 97
DB 739 GAGCGGAGCGCGCGGATGAGCGGGGAGCGGGGAGAGCGTCGTCGAGCGCCCTCCGAGAG- 682
QY 98 GTGAGCGCGGGGAGTGGGGTCCGATGCTGGTGGAGTACTGTGAACCCCTGGCGCTTGAG 157
DB 681 GTGAGCGCGGAGT-GGGTCCGATGCTGGTGGAGTACTGTGAACCCCTGGCGCTTGAG 623
QY 158 GCGACCTACCTGAGCTGAGCGGAGTGTGTGAAGAGAGAGTATCCGGGATCGAGATCGAG 217
DB 622 GCGACCTACCTGAGCTGAGCGGAGTGTGTGAAGAGAGAGTATCCGGGATCGAGATCGAG 563
QY 218 TCGCGCCTCGGGGAGCAGAGTGTGTGAAGTGAATTAATGAGACAGCTGGTGTCTCC 277
DB 562 TCGCGCCTCGGGGAGCAGAGTGTGTGAAGTGAATTAATGAGACAGCTGGTGTCTCC 503
QY 278 AAGCTGAGAAATGGGGGCTTCCCTATGAGAAAGATCTCATGAGGCCATCCGAGAGCC 337
DB 502 AAGCTGAGAAATGGGGGCTTCCCTATGAGAAAGATCTCATGAGGCCATCCGAGAGCC 443
QY 338 AGTAATGAGAAACCTAGAAAGATCAGCAACAGCGCTCCCTGCTCATCTGTGA 397
DB 442 AGTAATGAGAAACCTAGAAAGATCAGCAACAGCGCTCCCTGCTCATCTGTGA 383
QY 398 CTGACAGAGACTGTGGTCTCTGTCTGTGTGGGTCCAAACCTTGTCTCTCTTGGT 457
DB 382 CTGACAGAGACTGTGGTCTCTGTCTGTGTGGGTCCAAACCTTGTCTCTCTTGGT 323
QY 458 CTGCTGGGAGCTCCCGCTGCTCTTCCCTACTTAGCTCCTTAGCAAGAAGACCTTGG 517
DB 322 CTGCTGGGAGCTCCCGCTGCTCTTCCCTACTTAGCTCCTTAGCAAGAAGACCTTGG 263
QY 518 CTTCACTTTGGCCTTTGGGTACAAAGAAGATAGAAATTCGGTGGCCTTTGGGGGAG 577
DB 262 CTTCACTTTGGCCTTTGGGTACAAAGAAGATAGAAATTCGGTGGCCTTTGGGGGAG 203
QY 578 GAGAGAGACACTCTCATGAAACCTTCTCAGCCACTCATACCCCTTCCAGGGTAAG 637
DB 202 GAGAGAGACACTCTCATGAAACCTTCTCAGCCACTCATACCCCTTCCAGGGTAAG 143
QY 638 TGGCCAGGAAGCCCATCTTCTGCTCGGTATATACCTGTCTGATGCCACAGATT 697
DB 142 TGGCCAGGAAGCCCATCTTCTGCTCGGTATATACCTGTCTGATGCCACAGATT 83
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QY 698 TATTATTTCTCCCTTAACCCAGGCAATGTCACTATTGGCACTAAAGTGGCTTACAA 757
DB 82 TATTATTTCTCCCTTAACCCAGGCAATGTCACTATTGGCACTAAAGTGGCTTACAA 23
QY 758 CACTAATAAAAAAAAAAAAAA 779
DB 22 CCAATAAAAAAAAAAAAAA 1
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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Comugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 18, 2003, 18:35:45 ; Search time 3470 Seconds
(without alignments)
9962.143 Million cell updates/sec

Title: US-09-925-301-124

Perfect score: 845
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Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 2888711 seqs, 2045481386 residues

Total number of hits satisfying chosen parameters: 5777422

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-Processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

GenEmbl: *
1: gb_ba: *
2: gb_hcg: *
3: gb_in: *
4: gb_om: *
5: gb_ov: *
6: gb_pac: *
7: gb_ph: *
8: gb_pl: *
9: gb_pr: *
10: gb_ro: *
11: gb_str: *
12: gb_sy: *
13: gb_un: *
14: gb_vl: *
15: em_ba: *
16: em_fun: *
17: em_hum: *
18: em_in: *
19: em_mu: *
20: em_om: *
21: em_or: *
22: em_ov: *
23: em_pat: *
24: em_ph: *
25: em_pl: *
26: em_ro: *
27: em_str: *
28: em_un: *
29: em_vl: *
30: em_hcg_hum: *
31: em_hcg_inv: *
32: em_hcg_mus: *
33: em_hcg_mus: *
34: em_hcg_pln: *
35: em_hcg_rtd: *
36: em_hcg_mam: *
37: em_hcg_vrt: *
38: em_sy: *
39: em_hcgo_hum: *
40: em_hcgo_mus: *
41: em_hcgo_other: *

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	748	88.5	748	9	BC006006 Homo sapi
2	678.8	80.3	683	6	AX269165 Sequence
3	576	68.2	584	6	AX269179 Sequence
4	532	63.0	532	6	AX269193 Sequence
5	515.8	61.0	571	6	AX269195 Sequence
6	507.8	60.1	528	6	AX269197 Sequence
7	497.8	58.9	501	6	AX269225 Sequence
8	478.2	56.6	518	6	AX269163 Sequence
9	474.8	56.2	488	6	AX269180 Sequence
10	470.8	55.7	474	6	AX269227 Sequence
11	462.8	54.8	483	6	AX269228 Sequence
12	451	53.4	594	6	AX269230 Sequence
13	450.4	53.3	13450	9	AB096612 Homo sapi
14	450.4	53.3	16572	9	AB096614 Homo sapi
15	450.4	53.3	20271	9	AB096613 Homo sapi
16	450.4	53.3	161815	9	AC079199 Homo sapi
17	450.4	53.3	168585	9	AC040933 Homo sapi
18	450.4	53.3	198008	2	AC142197 Homo sapi
19	448	53.0	456	6	AX269206 Sequence
20	445.8	52.8	449	6	AX269229 Sequence
21	444.6	52.6	452	6	AX269203 Sequence
22	444	52.5	444	6	AX269204 Sequence
23	439.4	52.0	30837	9	AY208911 Homo sapi
24	439	52.0	451	6	AX269212 Sequence
25	434	51.4	434	6	AX269210 Sequence
26	434	51.4	434	6	AX269213 Sequence
27	433	51.2	447	6	AX269208 Sequence
28	432.8	51.2	461	6	AX269211 Sequence
29	431.8	51.1	459	6	AX269212 Sequence
30	428.8	50.7	544	6	AX269168 Homo sapi
31	427.6	50.6	508	6	AX269168 Homo sapi
32	426.2	50.4	491	9	HSN308025 Homo sapi
33	423	50.1	490	6	AX269166 Sequence
34	421	49.8	421	6	AX269218 Sequence
35	420.6	49.6	427	6	AX269217 Sequence
36	419	49.6	419	6	AX269219 Sequence
37	414.8	48.9	621	6	AX269164 Sequence
38	413	48.9	420	6	AX269181 Sequence
39	407.2	48.2	458	6	AX269202 Sequence
40	403	47.7	403	6	AX269222 Sequence
41	402	47.6	405	6	AX269232 Sequence
42	402	47.6	418	6	AX269221 Sequence
43	400	47.3	404	6	AX156246 Sequence
44	398.8	47.2	454	6	AX269215 Sequence
45	397	47.0	397	6	AX269171 Sequence

ALIGNMENTS

RESULT 1
LOCUS BC006006 748 bp mRNA linear PRI 12-JUL-2001
DEFINITION Homo sapiens, similar to RIKEN cDNA 181004619 gene, clone
MGC:14832 IMAGE:4283597, mRNA, complete cds.
ACCESSION BC006006
VERSION BC006006.1 GI:13543711
KEYWORDS MGC.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 748)
AUTHORS Strausberg, R.
TITLE Direct Submission

JOURNAL

Submitted (02-APR-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA

REMARK

NIH-MGC Project URL: <http://mgc.nci.nih.gov>
Contact: MGC help desk
Email: cgabs-remail.nih.gov
Tissue Procurement: ATCC

CDNA Library Preparation: CLONTECH Laboratories, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILML)
DNA Sequencing by: Sequencing Group at the Stanford Human Genome Center, Stanford University School of Medicine, Stanford, CA 94305
Web site: <http://www-shgc.stanford.edu>
Contact: (Dickson, Mark) mcddpaxil.stanford.edu
Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers, R. M.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/ILML at: <http://image.llnl.gov>
Series: IRAL Plate: 21 Row: h Column: 6
This clone was selected for full length sequencing because it passed the following selection criteria: Hexamer frequency ORF analysis, Genomescan gene prediction.

FEATURES

source

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EKITNSRPCTVL"

CDS

BASE COUNT 182 a 211 c 200 g 155 t
ORIGIN

Query Match 88.5%; Score 748; DB 9; Length 748;
Best Local Similarity 100.0%; Pred. No. 1.2e-135; Indels 0; Gaps 0;
Matches 748; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

43 GGCCTGATGACGCGGAGCGCGGAGACGTCGTAAGCGCCCTCCCGAGAGATCGA 102
1 GCGCGGATAGCGGGAGCGGGGACGACGTCGTAAGCGCCCTCCCGAGAGATCGA 60
103 GCGCGGATAGCGGGATCGCATCTGTGTGAGTACTGTGAACCTTGGCGCTTGAAGCGAC 162
61 GCGCGGATAGCGGGATCGCATCTGTGTGAGTACTGTGAACCTTGGCGCTTGAAGCGAC 120
163 CTACTGAGAGTGGCGAGTGTGTGAAGAGACAGTATCCGGGCAATCGAGATCGATGCGG 222
121 CTACTGAGAGTGGCGAGTGTGTGAAGAGACAGTATCCGGGCAATCGAGATCGATGCGG 180
223 CCTGGGGGCAAGAGTCTTGAATGAGATGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 282
181 CCTGGGGGCAAGAGTCTTGAATGAGATGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 240
283 GAGAAATGGGGGCTTTTCCCTTGAAGAAAGATCTCATTTGAGGCATCCGAAGAGCCAGTAA 342
241 GAGAAATGGGGGCTTTTCCCTTGAAGAAAGATCTCATTTGAGGCATCCGAAGAGCCAGTAA 300
343 TGAGAAATCCCTAAGAAAGATCAACCAAGAGCGGCTCCCTCGGCTCATCTGTGACTGCA 402
301 TGAGAAATCCCTAAGAAAGATCAACCAAGAGCGGCTCCCTCGGCTCATCTGTGACTGCA 360
403 CAGAGTCTGGGTTCTGTCTGTGTGTGGGGTCCAAACCTTGTGTCTCCCTTGTGTCTGC 462

|||||
Db 361 CAGAGTCTGGGTTCTGTCTGTGTGTGGGGTCCAAACCTTGTGTCTCCCTTGTGTCTGC 420

463 TGGAGTCTCCCTTGTCTCTTTCCTTACTTACTCTTATGCAAGAGACCTTGGCTCC 522

421 TGGAGTCTCCCTTGTCTCTTTCCTTACTTACTCTTATGCAAGAGACCTTGGCTCC 480

523 ACTTGGCTCTTGGTGAAGAAAGAAATGAGATTCCTGGCTTGGGGGAGAGAG 582

481 ACTTGGCTCTTGGTGAAGAAAGAAATGAGATTCCTGGCTTGGGGGAGAGAG 540

583 AGACACTCTCATGAACACTTCTCCAGCAGCTATACCCCTTCCAGGGTAAATGCC 642

541 AGACACTCTCATGAACACTTCTCCAGCAGCTATACCCCTTCCAGGGTAAATGCC 600

643 ACGAAAGCCAGTCCACTCTTGGCTTGGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 702

601 ACGAAAGCCAGTCCACTCTTGGCTTGGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 660

703 ATTCTCCCTTACCCAGGAGGATGTGAGTATGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 762

661 ATTCTCCCTTACCCAGGAGGATGTGAGTATGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 720

763 AAAAAAAAAAAAAAAAAAAAAAAAAA 790

721 AAAAAAAAAAAAAAAAAAAAAAAAAA 748

RESULT 2
AX269165 683 bp DNA linear PAT 29-OCT-2001

LOCUS AX269165
Sequence 5 from Patent WO0174859.

DEFINITION AX269165
AX269165.1 GI:16542081

KEYWORDS
AX269165.1 GI:16542081

ORGANISM
Homo sapiens (human)

SOURCE
Homo sapiens

REFERENCE
Zauderer, M., Evans, E.E. and Borrello, M.A.
A gene differentially expressed in breast and bladder cancer and
encoded polypeptides
Patent: WO 0174859-A 5 11-OCT-2001;
UNIVERSITY OF ROCHESTER (US)

JOURNAL
Location/Qualifiers

FEATURES
source
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/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

BASE COUNT 143 a 202 c 187 g 150 t 1 others

ORIGIN

Query Match 80.3%; Score 678.8; DB 6; Length 683;
Best Local Similarity 99.6%; Pred. No. 3.4e-122;
Matches 680; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

59 GAGCGGGGCAAGAGTCTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 118

1 GAGCGGGGCAAGAGTCTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 60

119 CGATGCTGTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 178

61 CGATGCTGTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 120

179 AGTGTGTGAAGAGAGTATCCGGGATGAGATGAGTGGCGCTTGGGGGAGAGAGT 228

121 AGTGTGTGAAGAGAGTATCCGGGATGAGATGAGTGGCGCTTGGGGGAGAGAGT 180

239 GCTTTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 298

181 GCTTTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 240

OY	299	CCCTATGGAAGAAGATCTCATTTGAGGCAATCCGAAGGCCAGTAATGAGAAACCCTAGAA	358
Db	241	CCCTATGAGAAAGATCTCATTTGAGGCCATCCGAAGGCCAGTAATGAGAAACCCTAGAA	300
OY	359	AAGATCAACCAACAGCCGTCCTCCGCGTCATCTGTGACITGACACAGACTCTGGAGTTC	418
Db	301	AAGATCAACCAACAGCCGTCCTCCGCGTCATCTGTGACITGACACAGACTCTGGAGTTC	360
OY	419	TGCTCTGTTCTGGGGTCCAAACCTTGGTTCCTCCCTTTTGGTCTGCTGGAGGCTCCCTGC	478
Db	361	TGCTCTGTTCTGGGGTCCAAACCTTGGTTCCTCCCTTTTGGTCTGCTGGAGGCTCCCTGC	420
OY	479	CTCTTCCCTACTTAGCTCCTTTAGCAAGAAGACCCTGGCTCCACTTTGACCTTT36GT	538
Db	421	CTCTGTCCCTTAATTAGCTCCTTTAGCAAGAAGACCCTGGCTCCACTTTGACCTTT36GT	480
OY	539	ACAAAGAAAGAAATAGAAAGATTCCGTGGCCTTTGGGGGACAGAGAGAGACACTTCCATGAA	598
Db	481	ACAAAGAAAGAAATAGAAAGATTCCGTGGCCTTTGGGGGACAGAGAGAGACACTTCCATGAA	540
OY	599	CACCTTCACAGCAGCTCATACACCCCTTCCGAGGGTAAGTGGCCACGAAAGGCCAGTCCA	658
Db	541	CACCTTCACAGCAGCTCATACACCCCTTCCGAGGGTAAGTGGCCACGAAAGGCCAGTCCA	600
OY	659	CTCTTGCGCTCGGTATAACCTGTCTGATGCCACAGATTTTATTATTATCTCCCTTAACCA	718
Db	601	CTCTTGCGCTCGGTATAACCTGTCTGATGCCACAGATTTTATTATTATCTCCCTTAACCA	660
OY	719	GGGCATGTCACTTATGGCACT 741	
Db	661	GGGCATGTCACTTATGGCACT 683	

LOCUS	AX269179	584 bp	DNA	linear	PAT 29-OCT-2001														
DEFINITION	Sequence 19 from Patent WO0174859.																		
ACCESSION	AX269179																		
VERSION	AX269179.1	GI:16542095																	
KEYWORDS																			
SOURCE																			
ORGANISM	Homo sapiens (human)																		
	Homo sapiens																		
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.																		
REFERENCE	1																		
AUTHORS	Zauderer, M., Evans, F.E. and Borrello, M.A.																		
TITLE	A gene differentially expressed in breast and bladder cancer and encoded polypeptides																		
JOURNAL	Patent: WO 0174859-A 19 11-Oct-2001; UNIVERSITY OF ROCHESTER (US)																		
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Best Local Similarity	100.0%; Pred. No. 3,5e-102;																		
Matches	576; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0														
QY	54	GC	GGG	GAG	CCCGG	CAG	CGT	CCG	TAG	CGCC	CCCTCC	GAG	GAG	AGT	CG	CGG	CGC	AGT	113
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QY	114	GG	GTCC	GAT	CGT	GTG	AGT	ACT	GTG	AAC	CTT	CG	CGC	CTT	CG	AGG	CGA	CTT	173
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Db	129	TG	GC	CAG	GC	TGT	GAA	GAG	AGT	ATC	CGG	GAT	CGA	ATG	AGT	CGG	CGC	CTT	188

Oy	234	CAGTCCCTTTGAGTATGAGTAATATGACACAGCTGTCTTCTCCAACTGGAGAAATGGG	253
Db	189	CAGTCCCTTTGAGTATGAGTAATATGACACAGCTGTCTTCTCCAACTGGAGAAATGGG	248
Oy	294	GCTTTCCTATGAGAAAGATCTCATTTGAGGCCATTCGAGAGCCAGTAAATGAGAAACC	353
Db	249	GCTTTCCTATGAGAAAGATCTCATTTGAGGCCATTCGAGAGCCAGTAAATGAGAAACC	308
Oy	354	TAGAAAAGATCACCAACAGCCGTCTCTCCCTGCTCATCTGTGACTGACAGAACTTGG	413
Db	309	TAGAAAAGATCACCAACAGCCGTCTCTCCCTGCTCATCTGTGACTGACAGAACTTGG	368
Oy	414	GTTCTGCTCTGTTCTGGGGGTCAAACCTTGATCTCCCTTGGTCTGCTGGAGACTCC	473
Db	369	GTTCTGCTCTGTTCTGGGGGTCAAACCTTGATCTCCCTTGGTCTGCTGGAGACTCC	428
Oy	474	CTGACCTCTTCCCTTACTTACTCTCTTAGCAAAAGACCTTGACCTCACTTGGCCCTT	533
Db	429	CTGACCTCTTCCCTTACTTACTCTCTTAGCAAAAGACCTTGACCTCACTTGGCCCTT	488
Oy	534	TGGGTCAAAAGAGATATGAAGATTCCGTGGCCTTGGGGGACAGAGAGACACTTCC	593
Db	489	TGGGTCAAAAGAGATATGAAGATTCCGTGGCCTTGGGGGACAGAGAGACACTTCC	548
Oy	594	ATGAACACTTCCACGACACCTCATACCCCTTCCC	629
Db	549	ATGAACACTTCCACGACACCTCATACCCCTTCCC	584

[illegible]

Db 352 GGTTCCTGCTCTGTTCTGCGGTCACAACTTGTCCTCCCTTGTGCTCTGCTGGAGCTCC 293
QY 473 CCGTGCCTCTTCCCTCTAGTCTCTTGAAGAAAGACCTGCGCTCACTTGTGCT 532
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Db 172 CAGAACACTTCTCCAGCACCTCATACCCCTTCCAGGGTAAGTCCACGAAAGCC 113
QY 653 AGTCCACTCTTCCGCTGGTAATACCTGTGATGCCACAGATTCTTATTCCTCCCT 712
Db 112 AGTCCACTCTTCCGCTGGTAATACCTGTGATGCCACAGATTCTTATTCCTCCCT 53
QY 713 AACCCAGGCAATGCTCACTATTGGCAGTAAGTGGGCTTCAAAACTTAA 764
Db 52 AACCCAGGCAATGCTCACTATTGGCAGTAAGTGGGCTTCAAAACTTAA 1

RESULT 5
AX269195/c 571 bp DNA linear PAT 29-OCT-2001
LOCUS AX269195 Sequence 35 from Patent WO0174859.
DEFINITION AX269195
ACCESSION AX269195
VERSION AX269195.1 GI:16542111
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1
AUTHORS Zauderer, M., Evans, E.B. and Borrello, M.A.
TITLE A gene differentially expressed in breast and bladder cancer and encoded polypeptides
JOURNAL Patent: WO 0174859-A 35 11-OCT-2001;
UNIVERSITY OF ROCHESTER (US)
FEATURES
source location/Qualifiers
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BASE COUNT 133 a 137 c 166 g 131 t 4 others
ORIGIN

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Best Local Similarity 95.8%; Pred. No. 1.8e-90;
Matches 549; Conservative 0; Mismatches 21; Indels 3; Gaps 2;

QY 190 GGAGCAGTATCGGGGATCGAGATCGAGTCGCGCTCGGGGCAACAGTGCCTTGAAT 249
Db 571 GGAGCAGTATCGGGGATCGAGATCGAGTCGCGCTCGGGGCAACAGTGCCTTGAAT 512
QY 250 AGAATATAAGAGAGAGTGTGTTCTCCAGCTGGAGAAATGGGGCTTCCCTATGAA 309
Db 511 AGAATATAAGAGAGAGTGTGTTCTCCAGCTGGAGAAATGGGGCTTCCCTATGAA 454
QY 310 AGATCTCATTTAGAGCCATCCGAAAGAGCCAGTAATGAGAAACCTTAGAAAGATCACC 369
Db 453 AGATCTCATTTAGAGCCATCCGAAAGAGCCAGTAATGAGAAACCTTAGAAAGATCACC 394
QY 370 CAGCGTCTCTCCGCTCATCTGTGATGATGACAGACTCTGGGTCTCTGCTCTGTTCT 429
Db 393 NAGCGTCTCTCCGCTCATCTGTGATGATGACAGACTCTGGGTCTCTGCTCTGTTCT 334
QY 430 GGGGTCAAAACCTTGTCTCTTGTCTGCTGCTGGAGTCCCTCCCTGCTCTTCCCT 489
Db 333 GGGGTCAAAACCTTGTCTCTTGTCTGCTGCTGGAGTCCCTCCCTGCTCTTCCCT 274
QY 490 ACTTAGCTCTTACAAAGAGACCTGCGCTCACTTGTGCTTGGTACAAAGAGAG 549

Db 273 ACTTAGCTCTTACAAAGAGACCTGCGCTCACTTGTGCTTGGTACAAAGAGAG 214
QY 550 ATGAGAAATTCCTGCGCTTGGGGGAGAGAGACACTTCCATGAACACTTCCAG 609
Db 213 ATGAGAAATTCCTGCGCTTGGGGGAGAGAGACACTTCCATGAACACTTCCAG 154
QY 610 CC-ACCTCATACCCCTTCCAGGGTAAGTCCAGAAAGCCAGTCCACTTGGCT 668
Db 153 CCAACTCATACCCCTTCCAGGGTAAGTCCAGAAAGCCAGTCCACTTGGCT 94
QY 669 CGGTAAATCTGTGTGATGACAGATTTTATTTATTTCTCCCTAACCCAGGCAATGTC 728
Db 93 CGGTAAATCTGTGTGATGACAGATTTTATTTATTTCTCCCTAACCCAGGCAATGTC 34
QY 729 AGCTATTGGCAGTAAGTGGGCTTACAAACACT 761
Db 33 AGCTATTGGCAGTAAGTGGGCTTACAAACACT 1

RESULT 6
AX269197/c 528 bp DNA linear PAT 29-OCT-2001
LOCUS AX269197 Sequence 37 from Patent WO0174859.
DEFINITION AX269197
ACCESSION AX269197
VERSION AX269197.1 GI:16542113
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1
AUTHORS Zauderer, M., Evans, E.B. and Borrello, M.A.
TITLE A gene differentially expressed in breast and bladder cancer and encoded polypeptides
JOURNAL Patent: WO 0174859-A 37 11-OCT-2001;
UNIVERSITY OF ROCHESTER (US)
FEATURES
source location/Qualifiers
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BASE COUNT 127 a 120 c 151 g 126 t 4 others
ORIGIN

Query Match 60.1%; Score 507.8; DB 6; Length 528;
Best Local Similarity 98.9%; Pred. No. 6.6e-89;
Matches 520; Conservative 0; Mismatches 5; Indels 1; Gaps 1;

QY 242 TTGAGATAGATAAATGAGACAGTGTGTTCTCCAGCTGGAGAAATGGGGCTTCCC 301
Db 527 TTGAGANGAGATAAATGAGACAGTGTGTTCTCCAGCTGGAGAAATGGGGCTTCCC 468
QY 302 TATGAGAAATCTCATTTAGAGCCATCCGAAAGCCAGTAATGAGAAACCTTAGAA 361
Db 467 TATGAGAAATCTCATTTAGAGCCATCCGAAAGCCAGTAATGAGAAACCTTAGAA 408
QY 362 ATACCAAGAGCCGTCTCTCCCTGCTCATCTGTGATGAC-AGACTCTGGGTCTG 420
Db 407 ATACCAAGAGCCGTCTCTCCCTGCTCATCTGTGATGACAGAAAGCTGTGGGTCTG 348
QY 421 CTCTGTTCTGGGTCCAAACCTTGTGTTCTCTTGGTCTGCTGGAGTCCCTGCT 480
Db 347 CTCTGTTCTGGGTCCAAACCTTGTGTTCTCTTGGTCTGCTGGAGTCCCTGCT 288
QY 481 CTTTCCCTTACTTACTCTTACCAAGAGACCTTGGCTCACTTGTGCTTGGGTAC 540
Db 287 CTTTCCCTTACTTACTCTTACCAAGAGACCTTGGCTCACTTGTGCTTGGGTAC 228
QY 541 AAAGAGAAATAGAAATTCCTGCTGCTTGGGGGAGAGAGAGACACTTCCATGACA 600
Db 227 AAAGAGAAATAGAAATTCCTGCTGCTTGGGGGAGAGAGAGACACTTCCATGACA 168

QY		601	CTTTCCTCCAGCACCCTCATPACCCCCTCCCGAGGGTAATGCCACGAAAGCCCAAGTCCACT	660
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QY		661	CTTGCCCTTCGGTAATACTGTCTGTATGCACAGATTATTTATTTCTCCCCCTAACCCAGG	720
Db		107	CTTGCCCTTCGGTAATACTGTCTGTATGCACAGATTATTTATTTCTCCCCCTAACCCAGG	48
QY		721	GCAATGTCAGCTATTGGCAGTAAAGTGGCGCTACCAACTATAA	766
Db		47	GCAATGTCAGCTATTGGCAGTAAAGTGGCGCTACCAACTATAA	2
RESULT 7				
AX269225/c				
LOCUS	AX269225	501 bp	linear	PAT 29-OCT-2001
DEFINITION	Sequence 65 from Patent WO0174859.			
ACCESSION	AX269225			
VERSION	AX269225.1	GI:16542141		
KEYWORDS				
SOURCE	Homo sapiens (human)			
ORGANISM	Homo sapiens			
REFERENCE	Bukhariya; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
AUTHORS	Mammalia; Euthera; Primates; Catarrhini; Homnidae; Homo.			
TITLE	1			
JOURNAL	Zauderer,M., Evans,E.E. and Borrelllo,M.A.			
FEATURES	A gene differentially expressed in breast and bladder cancer and encoded polypeptides			
Source	Patent: WO 0174859-A 65 11-Oct-2001;			
ORIGIN	UNIVERSITY OF ROCHESTER (US)			
BASE COUNT	Location/Qualifiers			
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Best Local Similarity	58.9%; Score 497.8; DB 6; Length 501;			
Matches 499; Conservative	99.6%; Pred. No. 5.8e-87;			
	Mismatches 2; Indels 0; Gaps 0;			
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Db		501	CAGCTGCGTCTCCACGCTGGAAGAAATGGGGCTTCCCTATGAGAAAGATCTCATGAG	442
QY		323	GCCATCCGAAGAGCCAGTATGAGAAGAACTTAGAAAAGATCAACAAGCGCTCTGCC	382
Db		441	GCCATCCGAAGAGCCAGTATGAGAAGAACTTAGAAAAGATCAACAAGCGCTCTGCC	382
QY		383	TGCGTCATCTGTGATGACAGAGACTCTGGAGTCTGCTCTGTTCTTGGGGTCAAACCT	442
Db		381	TGCGTCATCTGTGATGACAGAGACTCTGGAGTCTGCTCTGTTCTTGGGGTCAAACCT	322
QY		443	TGCGTCTCCCTTGGTCTGTGCTGGGAGCTCCCTGCTCTTTCCCTAATTAGCTCGTTA	502
Db		321	TGCGTCTCCCTTGGTCTGTGCTGGGAGCTCCCTGCTCTTTCCCTAATTAGCTCGTTA	262
QY		503	GCAAGAAGAGCCCTGGCCCTCACTTTGGCCCTTTGGGTAAGAAAGAAATAGAAATTCG	562
Db		261	GCAAGAAGAGCCCTGGCCCTCACTTTGGCCCTTTGGGTAAGAAAGAAATAGAAATTCG	202
QY		563	TGGCTTTGGGGGAGAGAGAGACACTCTCATGACAATTCTCCAGCACTCATACC	622
Db		201	TGGCTTTGGGGGAGAGAGAGACACTCTCATGACAATTCTCCAGCACTCATACC	142
QY		623	CTTTCCCAAGGTAAGTGGCCACGAAAGCCCACTCTTCCGCTCGGTATATCTGTG	682
Db		141	CTTTCCCAAGGTAAGTGGCCACGAAAGCCCACTCTTCCGCTCGGTATATCTGTG	82
QY		683	TGATGCCACAGATTTATTTATTTCTCCCTTAACCAAGGCAATGTCAGCTATTGGCAGTA	742
Db		81	TGATGCCACAGATTTATTTATTTCTCCCTTAACCAAGGCAATGTCAGCTATTGGCAGTA	22

RESULT 8	AX269163	518 bp	DNA	Linear	PAT 29-OCT-2001
LOCUS	AX269163				
DEFINITION	Sequence 3 from Patent WO0174859.				
ACCESSION	AX269163				
VERSION	AX269163.1	GI:16542079			
KEYWORDS					
SOURCE					
ORGANISM	Homo sapiens (human)				
REFERENCE	1				
AUTHORS	Zauderer, M., Evans, E.E. and Borrello, M.A.				
TITLE	A gene differentially expressed in breast and bladder cancer and encoded polypeptide				
JOURNAL	Patent: WO 0174859-A 3 11-OCT-2001;				
FEATURES	UNIVERSITY OF ROCHESTER (US)				
source	Location/Qualifiers				
BASE COUNT	107 a 143 c 157 g 111 t				
ORIGIN					
Query Match	56.6%; Score 478.2; DB 6; Length 518;				
Best Local Similarity	98.6%; Pred. No. 3.8e-83;				
Matches	503; Conservative 0; Mismatches 5; Indels 2; Gaps 2;				
QY	54 GCGGGAGACCGGGGACAGCTCGTAGCGCCCTCCCGAGAGAGTGAAGCCGGGACGTG 113				
Db	11 GAGCGTAGCCGGGGACAGCGTCGTAGCGCCCTCCCGAGAGAGTGAAGCCGGGACGTG 70				
QY	114 GGGTCGCGCATCGTGTGAGATGATCTGTAACCCCTGCGGCTTCGAGGCGACCTTACTGTGAGC 173				
Db	71 GGGTCGCGCATCGTGTGAGATGATCTGTAACCCCTGCGGCTTCGAGGCGACCTTACTGTGAGC 130				
QY	174 TGCGCAATGCTGTGAAGAGACAGTATCCGGGACATCGAGTCGAGTCGCGGCTCGGGGGCA 233				
Db	131 TGCGCAATGCTGTGAAGAGACAGTATCCGGGACATCGAGTCGAGTCGCGGCTCGGGGGCA 190				
QY	234 CAGGTGCTTTGAGATGAGATTAATGACAGCTGTGTTCTTCAAGCTTGAGAAATGGG 293				
Db	191 CAGGTG-CTTTGAGATGAGATTAATGACAGCTGTGTTCTTCAAGCTTGAGAAATGGG 249				
QY	294 GCTTTCCTTATGAGAAAGATCTCATTTAGAGCCATCCGAAAGCCAGTAATGAGAAACC 353				
Db	250 GCTTTCCTTATGAGAAAGATCTCATTTAGAGCCATCCGAAAGCCAGTAATGAGAAACC 309				
QY	354 TAGAAAGATCACAACAGCGCTCTCCCGGCGTCATCTGTGACTGCACAGACTCTGG 413				
Db	310 TAGAAAGATCACAACAGCGCTCTCCCGGCGTCATCTGTGACTGCACAGACTCTGG 369				
QY	414 GTTCTGCTGTGTTCTGAGGATCAAACTTGTCTCCCTTGTGTTGTTGTTGCTGAGAGTCCC 473				
Db	370 GTTCTGCTGTGTTCTGAGGATCAAACTTGTCTCCCTTGTGTTGTTGTTGCTGAGAGTCCC 428				
QY	474 CCGGCGCTTTCCTTCCCTACTAGTCCCTTATGAGAAAGAGACCTCGGCGCCCACTTTGGCCTT 533				
Db	429 CCGGCGCTTTCCTTCCCTACTAGTCCCTTATGAGAAAGAGACCTCGGCGCCCACTTTGGCCTT 488				
QY	534 TGGGTACAAAGAGAGATAGAGATTCGGT 563				
Db	489 TGGGTACAAAGAGAGATAGAGATTCGGT 518				

AX269180
LOCUS AX269180 488 bp DNA linear PAT 29-OCT-2001
DEFINITION Sequence 20 from Patent WO0174859.
ACCESSION AX269180
VERSION AX269180.1 GI:16542096
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Zauderer, M., Evans, E.E. and Borrello, M.A.
TITLE A gene differentially expressed in breast and bladder cancer and encoded polypeptides
JOURNAL Patent: WO 0174859-A 20 11-OCT-2001;
UNIVERSITY OF ROCHESTER (US)
FEATURES
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location/Qualifiers
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/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
BASE COUNT 96 a 141 c 153 g 98 t
ORIGIN
Query Match 56.2%; Score 474.8; DB 6; Length 488;
Best Local Similarity 99.6%; Pred. No. 1.7e-82;
Matches 476; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 35 GCGAGCCGCGCGCGATGAGCGGAGCGGAGCGAGCGTCCGTAGCGCCCTCCCGAG 94
DB 11 GCGAGCCGCGCGCGATGAGCGGAGCGGAGCGAGCGTCCGTAGCGCCCTCCCGAG 70
QY 95 GAGTTCAGCCGCGCGAGTGGGCTCCGATCGTGTGAGTACTGTGAACCTCGGCTTC 154
DB 71 GAGTTCAGCCGCGCGAGTGGGCTCCGATCGTGTGAGTACTGTGAACCTCGGCTTC 130
QY 155 GAGCGCACTTACCTGAGCTGCGCAGTGTGTAAGAGCAGTATCCGGGAGTCAAGTTC 214
DB 131 GAGCGCACTTACCTGAGCTGCGCAGTGTGTAAGAGCAGTATCCGGGAGTCAAGTTC 190
QY 215 GAGTTCAGCCGCGCGAGTGGGCTCCGATCGTGTGAGTACTGTGAACCTCGGCTTC 274
DB 191 TACTCGCGCGCGCGAGTGGGCTCCGATCGTGTGAGTACTGTGAACCTCGGCTTC 250
QY 275 TCCAGCTGAGAGTGGGCGCTTCCCATGAGAAAGTCAATGAGGCGCATCGAAGA 334
DB 251 TCCAGCTGAGAGTGGGCGCTTCCCATGAGAAAGTCAATGAGGCGCATCGAAGA 310
QY 335 GCCAGTATGAGAAACCTTGAAGAAAGTCAACAACAGCGTCCCTCGCTGATCTCTG 394
DB 311 GCCAGTATGAGAAACCTTGAAGAAAGTCAACAACAGCGTCCCTCGCTGATCTCTG 370
QY 395 TGACTGCAAGAGTCTGGGTTCTGCTGTTCTGGGGTCAAACTTGTCTCCCTT 454
DB 371 TGACTGCAAGAGTCTGGGTTCTGCTGTTCTGGGGTCAAACTTGTCTCCCTT 430
QY 455 GGTCTGCTGGAGTCTCCCTGCTCTTCCCTACTAGTCTCTTGAAGAAAGAC 512
DB 431 GGTCTGCTGGAGTCTCCCTGCTCTTCCCTACTAGTCTCTTGAAGAAAGAC 488

RESULT 10
AX269227/c
LOCUS AX269227 474 bp DNA linear PAT 29-OCT-2001
DEFINITION Sequence 67 from Patent WO0174859.
ACCESSION AX269227
VERSION AX269227.1 GI:16542143
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Zauderer, M., Evans, E.E. and Borrello, M.A.
TITLE A gene differentially expressed in breast and bladder cancer and encoded polypeptides
JOURNAL Patent: WO 0174859-A 20 11-OCT-2001;
UNIVERSITY OF ROCHESTER (US)
FEATURES
source
location/Qualifiers
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/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
BASE COUNT 118 a 109 c 144 g 111 t 1 others

AUTHORS Zauderer, M., Evans, E.E. and Borrello, M.A.
TITLE A gene differentially expressed in breast and bladder cancer and encoded polypeptides
JOURNAL Patent: WO 0174859-A 67 11-OCT-2001;
UNIVERSITY OF ROCHESTER (US)
FEATURES
source
location/Qualifiers
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/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
BASE COUNT 112 a 100 c 145 g 117 t
ORIGIN
Query Match 55.7%; Score 470.8; DB 6; Length 474;
Best Local Similarity 99.6%; Pred. No. 1e-81;
Matches 472; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 296 TTTCCTATGAGAAAGTCTGATGAGGCGCATCCGAAGACCACTAATGAGAAACCTTA 355
DB 474 TTTCCTATGAGAAAGTCTGATGAGGCGCATCCGAAGACCACTAATGAGAAACCTTA 415
QY 356 GAAAGATCAACAAGCGCTCCCTGCTGATCTGATGAGAGTCAAGTCTGGGT 415
DB 414 GAAAGATCAACAAGCGCTCCCTGCTGATCTGATGAGAGTCAAGTCTGGGT 355
QY 416 TCTGCTCTGTTGGGGTCAAACTGCTGCTCCCTTGGTCTGCTGGAGCTCCCC 475
DB 354 TCTGCTCTGTTGGGGTCAAACTGCTGCTCCCTTGGTCTGCTGGAGCTCCCC 295
QY 476 TGCTCTCTTCCCTACTTACTGCTCTTGAAGAGACCTTGCTCCCTTTG 535
DB 294 TGCTCTCTTCCCTACTTACTGCTCTTGAAGAGACCTTGCTCCCTTTG 235
QY 536 GATTAAGAAAGAAATTAAGATTCGCTGCTGGGCGAGAGAGACACTTTCAT 595
DB 234 GATTAAGAAAGAAATTAAGATTCGCTGCTGGGCGAGAGAGACACTTTCAT 175
QY 596 GAACACTTCTCCAGCCACTCATACCCCTTCCAGGGTAAAGTCCACGAAAGCCAGT 655
DB 174 GAACACTTCTCCAGCCACTCATACCCCTTCCAGGGTAAAGTCCACGAAAGCCAGT 115
QY 656 CCACTCTGCGCTCGGTAATCTGCTGATGCAAGATTTATTTATCTCCCTAAC 715
DB 114 CCACTCTGCGCTCGGTAATCTGCTGATGCAAGATTTATTTATCTCCCTAAC 55
QY 716 CCAAGGCAATGATGAGTATGAGTAAGTGGCGCTACAAACCTTAATAAAAA 769
DB 54 CCAAGGCAATGATGAGTATGAGTAAGTGGCGCTACAAACCTTAATAAAAA 1

RESULT 11
AX269228/c
LOCUS AX269228 483 bp DNA linear PAT 29-OCT-2001
DEFINITION Sequence 68 from Patent WO0174859.
ACCESSION AX269228
VERSION AX269228.1 GI:16542144
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Zauderer, M., Evans, E.E. and Borrello, M.A.
TITLE A gene differentially expressed in breast and bladder cancer and encoded polypeptides
JOURNAL Patent: WO 0174859-A 68 11-OCT-2001;
UNIVERSITY OF ROCHESTER (US)
FEATURES
source
location/Qualifiers
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BASE COUNT 118 a 109 c 144 g 111 t 1 others

ORIGIN

Query Match 54.8%; Score 462.8; DB 6; Length 483;
Best Local Similarity 97.3%; Pred. No. 3.7e-80;
Matches 470; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

279 AGCTGAGAGATGGGGCTTTCCCTATGAGAAAGATCTCATTTAGAGGCGCATCCGAAAGACCA 338
Db AGCTGAGAGATGGGGCTTTCCCTATGAGAAAGATCTCATTTAGAGGCGCATCCGAAAGACCA 424

339 GTAATGAGAAACCTTAGAAAGATCAACAAGCCCTCCCTGCGTCATCTGTGAC 398
Db GTAATGAGAAACCTTAGAAAGATCAACAAGCCCTCCCTGCGTCATCTGTGAC 364

349 TGACAGAGACTCTGGGTTCTGCTCTGTTCTGGGGGTCAAACCTTGATCTCCCTTTGGTC 458
Db TGACAGAGACTCTGGGTTCTGCTCTGTTCTGGGGGTCAAACCTTGATCTCCCTTTGGTC 304

459 CTGCTGGAGCTCCCTGCTGCTCTTTCCCTACTTAGCTCTTAGCAAGAGACCCCTGAC 518
Db CTGCTGGAGCTCCCTGCTGCTCTTTCCCTACTTAGCTCTTAGCAAGAGACCCCTGAC 244

519 CTCCTCTTGGCTTTGGGTACAAAGAGAAATGAGATTCCTGAGCTTGGGGGCAAG 578
Db CTCCTCTTGGCTTTGGGTACAAAGAGAAATGAGATTCCTGAGCTTGGGGGCAAG 184

579 AGAGAGACCTCTCATGACACTTCTCCAGCACCCTCAACCCCTTCCAGGGTAACT 638
Db AGAGAGACCTCTCATGACACTTCTCCAGCACCCTCAACCCCTTCCAGGGTAACT 124

639 GCCCAGAAAGCCAGTCACTCTTGCCTCGGTAAATACCTGTGATGCCACAGATTTT 698
Db GCCCAGAAAGCCAGTCACTCTTGCCTCGGTAAATACCTGTGATGCCACAGATTTT 64

123 GCCCAGAAAGCCAGTCACTCTTGCCTCGGTAAATACCTGTGATGCCACAGATTTT 64
Db GCCCAGAAAGCCAGTCACTCTTGCCTCGGTAAATACCTGTGATGCCACAGATTTT 64

639 ATTTATTTCTCCCTTAACCCAGGGCAATGTACCTATTGGCAGTAAAGTGGCGCTCAAC 758
Db ATTTATTTCTCCCTTAACCCAGGGCAATGTACCTATTGGCAGTAAAGTGGCGCTCAAC 4

759 ACT 761
Db ACT 1

3 ACT 1

RESULT 12
AX269230/C 594 bp DNA linear PAT 29-OCT-2001
LOCUS Sequence 70 from Patent WO0174859.
DEFINITION AX269230
ACCESSION AX269230
VERSION AX269230.1 GI:16542146
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE
AUTHORS 1
TITLE Zauderer M., Evans F.B. and Borrello M.A.
JOURNAL A gene differentially expressed in breast and bladder cancer and
AUTHORS encoded polypeptides
TITLE Patent: WO 0174859-A 70 11-OCT-2001;
JOURNAL UNIVERSITY OF ROCHESTER (US)
FEATURES
source 1..594
/organism="Homo sapiens"
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/db_xref="taxon:9606"
BASE COUNT 137 a 148 c 171 g 137 t 1 others
ORIGIN

Query Match 53.4%; Score 451; DB 6; Length 594;
Best Local Similarity 94.0%; Pred. No. 7.7e-78;
Matches 545; Conservative 0; Mismatches 26; Indels 9; Gaps 7;

183 CTGTGAAGAGACGATCCGGGCGATCGATGATCGCGCTCGGGGCAACAGT3CCT 242

Db CTGTGAAGAGACGATCCGGGCGATCGATGATCGCGCTCGGGGCAACAGT3CCT 515

243 TTGAATAGAGTAATAGACAGCTGTGTTTCTCAAGCTGAGAAATGGGGCTTTCCCT 302
Db TTGAATAGAGTAATAGACAGCTGTGTTTCTCAAGCTGAGAAATGGGGCTTTCCCT 457

514 TTGAATAGAGTAATAGACAGCTGTGTTTCTCAAGCTGAGAAATGGGGCTTTCCCT 457
Db TTGAATAGAGTAATAGACAGCTGTGTTTCTCAAGCTGAGAAATGGGGCTTTCCCT 362

303 ATGAGAAAGATCTCTTGGGCGCATCCGAAAGCCAGTAATGAGAAACCTTAGAAAGA 362
Db ATGAGAAAGATCTCTTGGGCGCATCCGAAAGCCAGTAATGAGAAACCTTAGAAAGA 398

456 ATGAGAAAGATCTCTTGGGCGCATCCGAAAGCCAGTAATGAGAAACCTTAGAAAGA 398
Db ATGAGAAAGATCTCTTGGGCGCATCCGAAAGCCAGTAATGAGAAACCTTAGAAAGA 340

397 TCACCCACAGCC -NCTCCCTGCGCATCTGTGATCTGACAGAGACTGTGGGT -CTGCT 340
Db TCACCCACAGCC -NCTCCCTGCGCATCTGTGATCTGACAGAGACTGTGGGT -CTGCT 281

423 CTGTTCTGGGTCCTCAACCTTGTCTCCCTTTGGTCTGCTGAGAGCTCCCTGCTCT 482
Db CTGTTCTGGGTCCTCAACCTTGTCTCCCTTTGGTCTGCTGAGAGCTCCCTGCTCT 281

339 CTGTTCTGGGTCCTCAACCTTGTCTCCCTTTGGTCTGCTGAGAGCTCCCTGCTCT 281
Db CTGTTCTGGGTCCTCAACCTTGTCTCCCTTTGGTCTGCTGAGAGCTCCCTGCTCT 542

483 TTCCCTACTTAACTCTTGAAGAGACCTGGCTCCACTTGGCTTTGGGTACAA 542
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280 TTCCCTACTTAACTCTTGAAGAGACCTGGCTCCACTTGGCTTTGGGTACAA 221
Db TTCCCTACTTAACTCTTGAAGAGACCTGGCTCCACTTGGCTTTGGGTACAA 602

543 AGAAGAAATAGAAATTCCTGCTGCTGGGGGCAAGAGAGACACTCTCCATGAACACT 602
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220 AGAAGAAATAGAAATTCCTGCTGCTGGGGGCAAGAGAGACACTCTCCATGAACACT 161
Db AGAAGAAATAGAAATTCCTGCTGCTGGGGGCAAGAGAGACACTCTCCATGAACACT 662

603 TCTCCAGCACCCTCAATACCCCTTCCAGGGTAAGTCCCAAGAAACCCAGTCACTCT 662
Db TCTCCAGCACCCTCAATACCCCTTCCAGGGTAAGTCCCAAGAAACCCAGTCACTCT 101

160 TCTCCAGCACCCTCAATACCCCTTCCAGGGTAAGTCCCAAGAAACCCAGTCACTCT 101
Db TCTCCAGCACCCTCAATACCCCTTCCAGGGTAAGTCCCAAGAAACCCAGTCACTCT 722

663 TCGCTGCTTAATACCTGTGATGCGCAAGATTTATTTATTCCTCCCTAACCCAGGC 722
Db TCGCTGCTTAATACCTGTGATGCGCAAGATTTATTTATTCCTCCCTAACCCAGGC 41

100 TCGCTGCTTAATACCTGTGATGCGCAAGATTTATTTATTCCTCCCTAACCCAGGC 41
Db TCGCTGCTTAATACCTGTGATGCGCAAGATTTATTTATTCCTCCCTAACCCAGGC 762

723 AATGTCACTTAATGCGAGTAAAGTGGCGCTCAACACTTA 762
Db AATGTCACTTAATGCGAGTAAAGTGGCGCTCAACACTTA 1

40 AATGTCACTTAATGCGAGTAAAGTGGCGCTCAACACTTA 1

RESULT 13
AB096612/C 13450 bp DNA linear PRI 21-MAY-2003
LOCUS AB096612
DEFINITION Homo sapiens DNA, 13kb-normal EcoRI sequence.
ACCESSION AB096612
VERSION AB096612.1 GI:30962525
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE
AUTHORS 1
TITLE Kuwahara Y., Tanabe C., Ikeuchi T., Aoyagi K., Nishigaki M.,
JOURNAL Sakamoto H., Hoshinaga K., Yoshida T., Sasaki H. and Terada M.
AUTHORS Presence of novel mechanisms other than the BRB cycles in
TITLE amplification of human oncogene
JOURNAL Unpublished
AUTHORS 2 (bases 1 to 13450)
TITLE Direct Submission
JOURNAL Submitted (20-NOV-2002) Hiroki Sasaki, National Cancer Center
AUTHORS Research Institute, Genetics Division; Tsukiji 5-1-1, Chuo-ku,
TITLE Tokyo 104-0045, Japan (E-mail: hksasaki@ncc.ncc.go.jp,
JOURNAL Tel: 81-3-3542-2511 (ex. 4402), Fax: 81-3-3541-2685)
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 QY 312 ATCTCATTTAGAGCCATCCGAGAGCCAGTATATGAGAAACCTTAGAAAGATCACCACCA 371
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 QY 372 GCGCTCTCCCTGCTGATCTGATGATGACAGAGATCTGGGTCTCTGCTGTTCTGG 431
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 QY 432 GGTCCAAACCTTGGTCTCCCTTTGCTGCTGGAGCTCCCTGCTCTTCCCTTAC 491
 Db 2876 GGTCCAAACCTTGGTCTCCCTTTGCTGCTGGAGCTCCCTGCTCTTCCCTTAC 2817
 QY 492 TTAGCTCTTTAGCAAGAGACCTGAGCTCCACTTTGCGGTACAAAGAGAAAT 551
 Db 2816 TTAGCTCTTTAGCAAGAGACCTGAGCTCCACTTTGCGGTACAAAGAGAAAT 2757
 QY 552 AGAAGATTCCTGCTGCTGGGGGAGAGAGACACTCTTCATGAAACATTTCTCCAGCC 611
 Db 2756 AGAAGATTCCTGCTGCTGGGGGAGAGAGACACTCTTCATGAAACATTTCTCCAGCC 2697
 QY 612 ACCGATACCCCTTCCAGGGTAAAGTGCACAGAAAGCCAGTCCACTTTGCGCTCGG 671
 Db 2696 ACCGATACCCCTTCCAGGGTAAAGTGCACAGAAAGCCAGTCCACTTTGCGCTCGG 2637
 QY 672 TAAATACCTGTCTGATGACAGATTTTATTATTTCTCCCTTAACCCAGGGCAATGTGAGC 731
 Db 2636 TAAATACCTGTCTGATGACAGATTTTATTATTTCTCCCTTAACCCAGGGCAATGTGAGC 2577
 QY 732 TATTGCGATGAAGTGGCGCTACAAACACTTA 763
 Db 2576 TATTGCGATGAAGTGGCGCTACAAACACTTA 2545
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 DEFINITION AB096614
 ACCESSION AB096614.1 GI:30962527
 VERSION
 KEYWORDS Homo sapiens (human)
 SOURCE Homo sapiens
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 REFERENCE 1
 AUTHORS Kuwahara, Y., Tanabe, C., Ikeuchi, T., Aoyagi, K., Nishigaki, M.,
 TITLE Sakamoto, H., Hoshinaga, K., Yoshida, T., Sasaki, H. and Terada, M.
 JOURNAL Presence of novel mechanisms other than the BRB cycles in
 REFERENCE amplification of human oncogene
 AUTHORS Unpublished
 JOURNAL 2 (bases 1 to 16572)
 TITLE Sasaki, H.
 REFERENCE Direct Submission
 JOURNAL Submitted (20-NOV-2002) Hiroki Sasaki, National Cancer Center
 TITLE Research Institute, Genetics Division; Tsukiji 5-1-1, Chuo-Ku,
 JOURNAL Tokyo 104-0045, Japan (E-mail: hkasasaki@gan2.res.ncc.go.jp),

FEATURES
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 exon 684. .936
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 Matches 451; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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 Db 2876 GGTCCAAACCTTGGTCTCCCTTTGCTGCTGGAGCTCCCTGCTCTTCCCTTAC 2817
 QY 492 TTAGCTCTTTAGCAAGAGACCTGAGCTCCACTTTGCGGTACAAAGAGAAAT 551
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 Db 2756 AGAAGATTCCTGCTGCTGGGGGAGAGAGACACTCTTCATGAAACATTTCTCCAGCC 2697
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 Db 2696 ACCGATACCCCTTCCAGGGTAAAGTGCACAGAAAGCCAGTCCACTTTGCGCTCGG 2637
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 QY 732 TATTGCGATGAAGTGGCGCTACAAACACTTA 763
 Db 2576 TATTGCGATGAAGTGGCGCTACAAACACTTA 2545
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 DEFINITION AB096613
 ACCESSION AB096613.1 GI:30962526
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 KEYWORDS Homo sapiens (human)
 SOURCE Homo sapiens
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE
AUTHORS
TITLE
JOURNAL
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
SOURCE

Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
1
Kawahara, Y., Tanabe, C., Ikeuchi, T., Aoyagi, K., Nishigaki, M.,
Sakamoto, H., Hoshinaga, K., Yoshida, T., Sasaki, H. and Terada, M.
Presence of novel mechanisms other than the BFB cycles in
amplification of human oncogene
Unpublished
2 (bases 1 to 20271)
Sasaki, H.
Direct Submission
Submitted (20-NOV-2002) Hiroki Sasaki, National Cancer Center
Research Institute, Genetics Division, Tsukiji 5-1-1, Chuo-ku,
Tokyo 104-0045, Japan (E-mail: hksasaki@gan2.res.ncc.go.jp,
Tel: 81-3-3542-2511 (ex. 4402), Fax: 81-3-3541-2685)
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/number=1

BASE COUNT 4372 a 5349 c 5309 g 5241 t
ORIGIN

Query Match 53.3%; Score 450.4; DB 9; Length 20271;
Best Local Similarity 99.8%; Pred. No. 1.7e-77;
Matches 451; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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DB 2936 GCCGCTCCTCGCTCATCCGCTGACTGACAGAGACTCTGGGTTCTGCTCTGTTCTGG 2877
QY 432 GGTCCAAACCTTGCTCTCCCTTTGGTCTCTGCTGGAGCTCCCTGCTCTTTCCCTAC 491
DB 2876 GGTCCAAACCTTGCTCTCCCTTTGGTCTCTGCTGGAGCTCCCTGCTCTTTCCCTAC 2817
QY 492 TTAGTCCTTTAGCAAGAGACCTTGCTCCACTTTGCCCTTTGGGTACAAAGAGAAAT 551
DB 2816 TTAGTCCTTTAGCAAGAGACCTTGCTCCACTTTGCCCTTTGGGTACAAAGAGAAAT 2757
QY 552 AGAAGATTCGCTGCTTGCTGGGGGAGAGAGACACTCTCCATGAACATTTCTCAACC 611
DB 2756 AGAAGATTCGCTGCTTGCTGGGGGAGAGAGACACTCTCCATGAACATTTCTCAACC 2697
QY 612 ACCTCATACCCCTTTCCAGGGTAAGTGCCACGAAAGCCAGTCACTTTGGCTTGG 671
DB 2696 ACCTCATACCCCTTTCCAGGGTAAGTGCCACGAAAGCCAGTCACTTTGGCTTGG 2637

QY 672 TAATACCTGTCTGATGCCACAGATTTTATTTCTCCCTTAACCCAGGGCAATGTCAGC 731
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QY 732 TATTGGCAGTAAAGTGGCGCTTACAAACACTAA 763
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Job time : 3472 secs

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